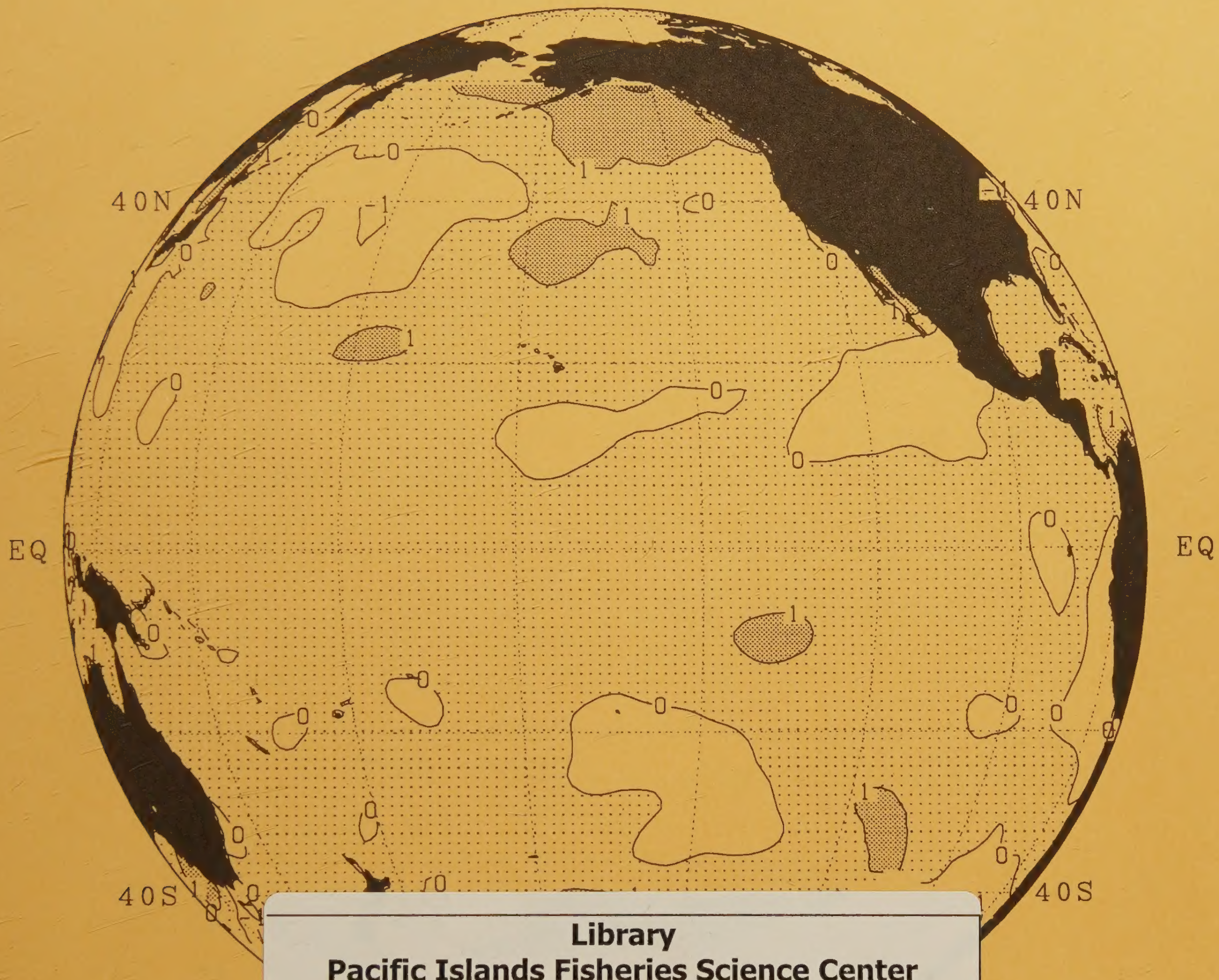
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Monthly Ocean Report
June 2005 (No. 150)



Global Environment and Marine Department

Japan Meteorological Agency

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平成17年6月

気象庁海洋月報は、気象庁 地球環境・海洋部 海洋気象情報室で作成しています。
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表紙は、2005 年 6 月の太平洋の月平均海面水温偏差図です。
陰影部は、平年より高温の海域を示しています。

The figure on the front cover shows the monthly mean SST anomalies for June 2005 in the Pacific Ocean.
Areas of positive anomalies are shaded.

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* MGDSST (Merged satellite and *in-situ* data Global Daily SST)を使用している。
** 従来と同様の、現場観測による海面水温をもとにした解析値を使用している。

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* Based on MGDSST (Merged satellite and *in-situ* data Global Daily SST).

** Based on the traditional analysis using *in-situ* SSTs.

海況の特徴（２００５年６月）

日本近海の海況

海面水温は、九州南方で平年より1℃以上低く、北海道西方から佐渡沖にかけての海域と東シナ海北西部で平年より1℃以上高かった（第４図）。

黒潮は、紀伊半島沖から東海沖を大きく蛇行し、上旬は31° N付近、中旬は31.5° N付近、下旬は32° N付近まで南下していた。その後、伊豆諸島の東を北上し、房総半島沖を北東に流れていた（第９図）。

太平洋の海況

太平洋赤道域の海面水温は、南米大陸沿岸を除くほぼ全域で平年より高く、160° Eから175° Wにかけてと165° Wから150° Wにかけて、および115° W付近では0.5℃以上高かった。エクアドル沿岸では-0.5℃を超える負偏差が見られた。

北太平洋の海面水温は、アラスカ湾、35° N、155° W付近および20° Nの日付変更線付近で平年より1℃以上高かった。一方、40° N、175° E付近では-1℃を超える負偏差が見られた（第１７図）。

Highlights June 2005

Seas adjacent to Japan

SSTs were more than 1℃ below normal in the seas south of Kyushu. SSTs were more than 1℃ above normal from west of Hokkaido to off Sado and in the northwestern part of the East China Sea (Fig. 4).

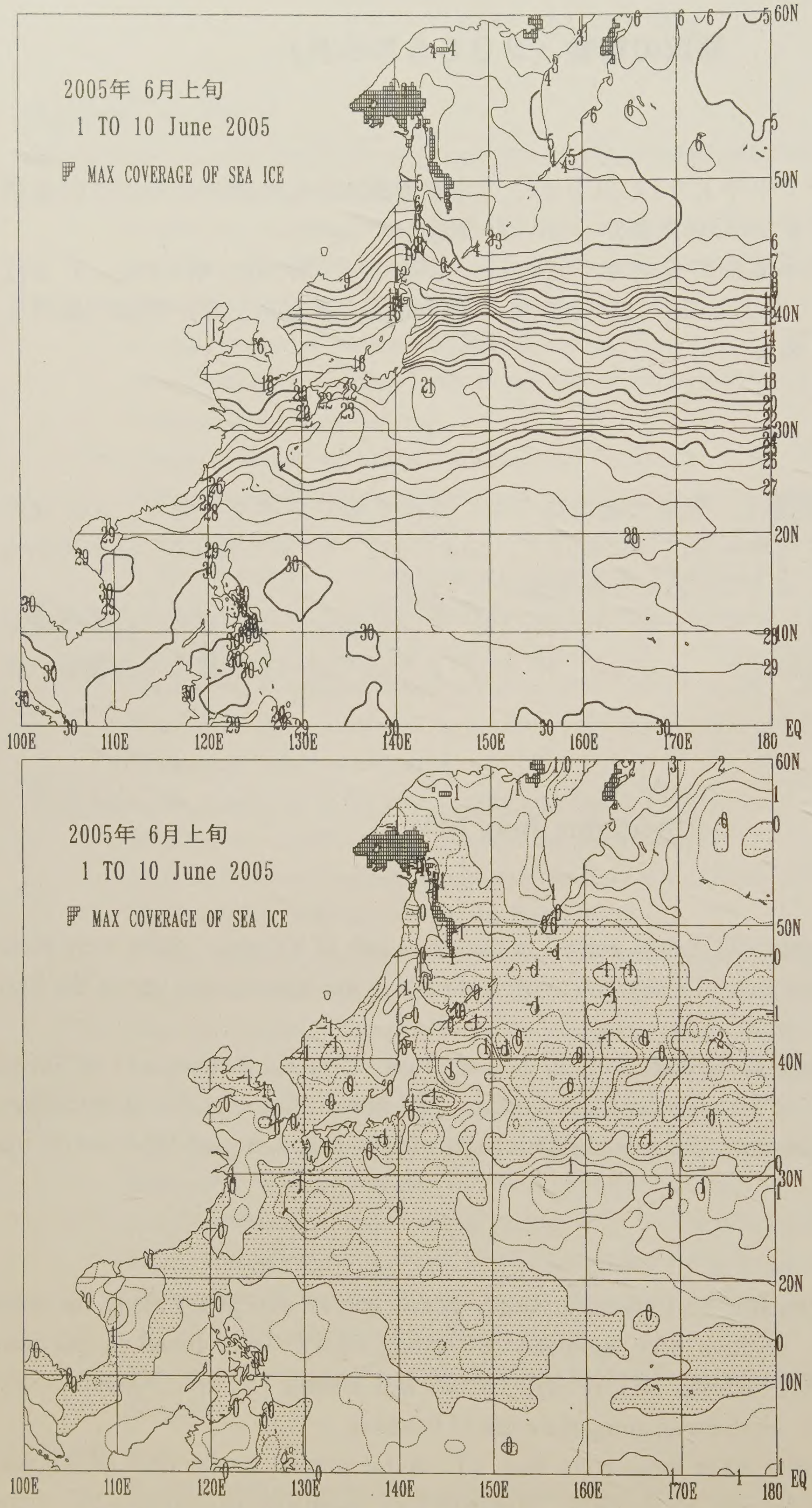
The Kuroshio meandered significantly in the seas from off the Kii Peninsula to off Tokai. The southernmost position of the meander was at about 31°N in early June, 31.5°N in mid-June, and 32°N in the rest of the month. After passing east of the Izu Islands, it flowed NE-ward off the Boso Peninsula (Fig. 9).

Pacific Ocean

In the equatorial Pacific, SSTs were generally above normal except for along the west coast of South America. Positive SST anomalies exceeding +0.5℃ were found in the seas between 160°E and 175°W, between 165°W and 150°W, and around 115°W. Negative SST anomalies exceeding -0.5℃ were found along the coast of Ecuador.

In the North Pacific, SSTs were more than 1℃ above normal in the Gulf of Alaska, around 35°N, 155°W, and around 20°N, 180°. Negative SST anomalies exceeding –1℃ were found around 40°N, 175°E (Fig. 17).

Ten-day mean SST & Anomalies



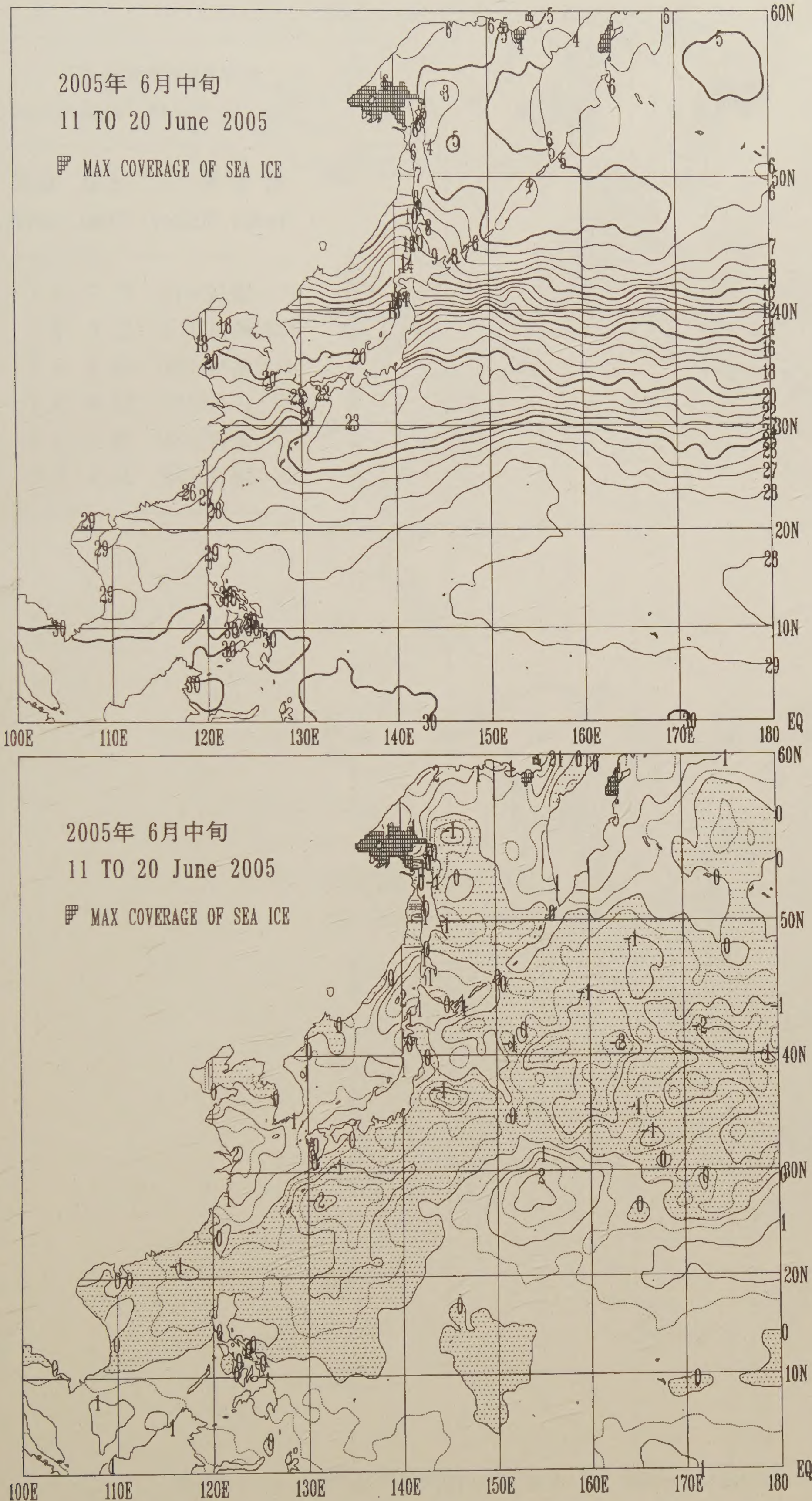
旬平均沿岸水温(℃)
Coastal Water Temperature

地点名 (Index Number)	水温 Temp.	偏差 Anom.
石　垣(47918)	26.7	-0.3
御前崎(47655)	20.3	-0.3
小名浜(47598)	14.4	-0.2
宮　古(47585)	11.5	-0.3
江　差(47428)	13.4	-0.3
浜　田(47755)	20.4	0.5

第1図 北西太平洋旬平均海面水温図(上)及び偏差図(下) (2005年 6月上旬)

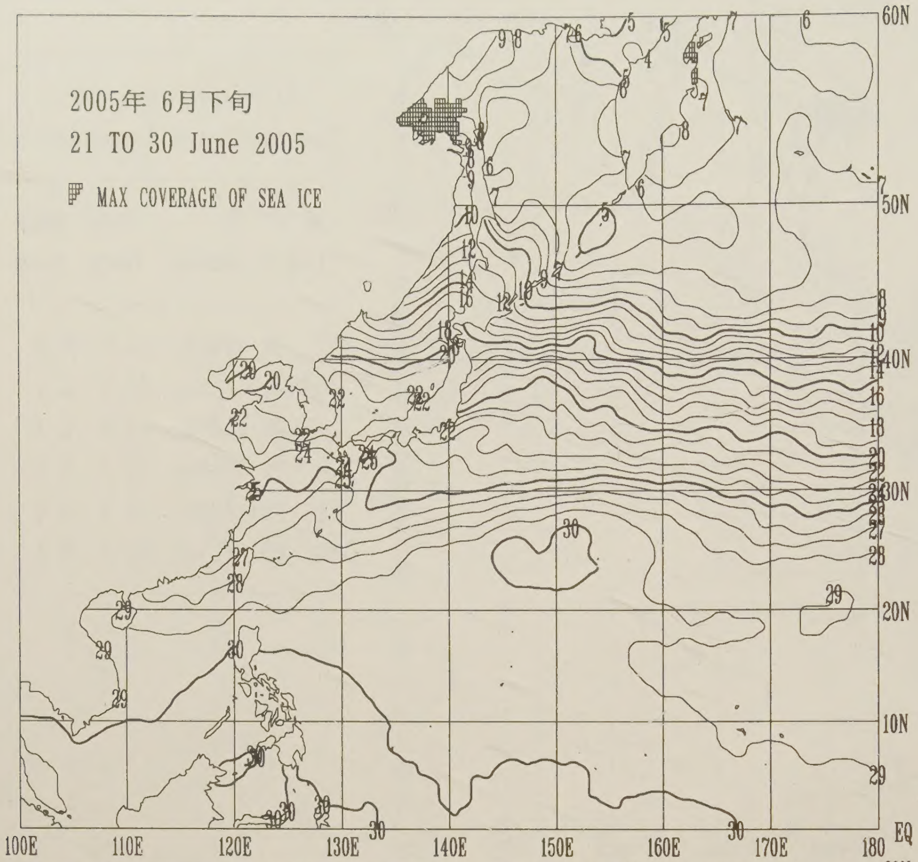
Fig. 1 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 1st ten-day period in June 2005. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are stippled.

旬平均沿岸水温 (℃) Coastal Water Temperature		
地 点 名 (Index Number)	水温 Temp.	偏差 Anom.
石　垣 (47918)	26. 8	-0. 9
御前崎 (47655)	21. 2	0. 1
小名浜 (47598)	14. 8	-0. 2
宮　古 (47585)	12. 9	0. 2
江　差 (47428)	15. 8	0. 4
浜　田 (47755)	21. 1	0. 2



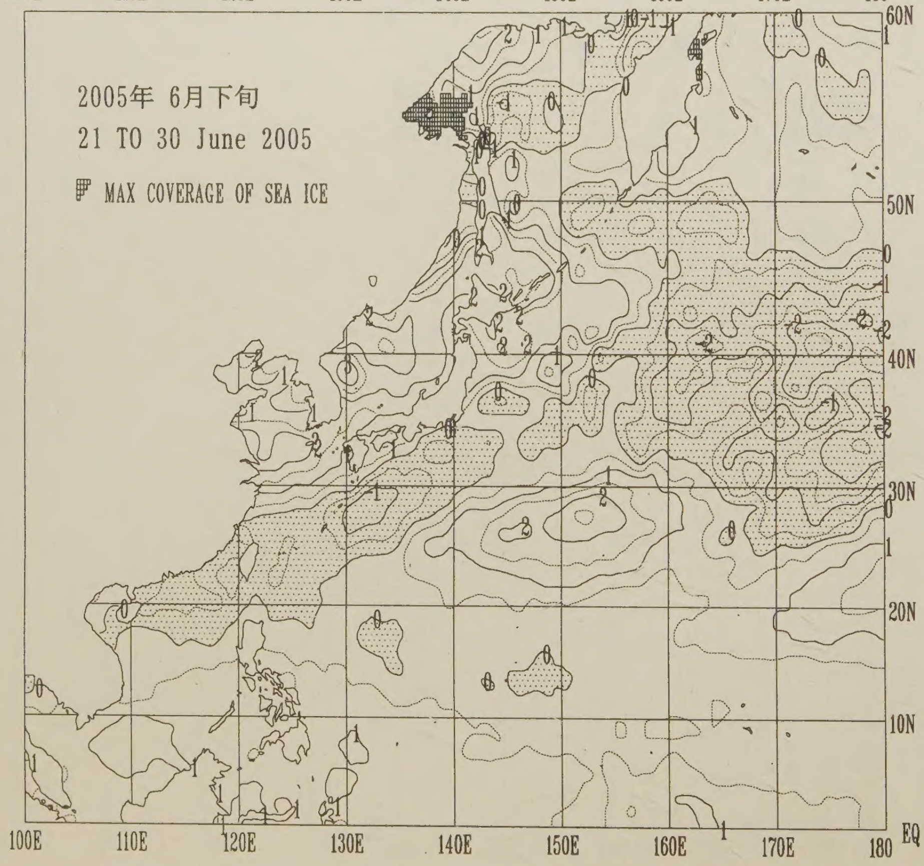
第2図 北西太平洋旬平均海面水温図 (上) 及び偏差図 (下) (2005年 6月中旬)

Fig. 2 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 2nd ten-day period in June 2005. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0. 5°C are shown by broken lines. Negative anomalies are stippled.



旬平均沿岸水温(℃)
Coastal Water Temperature

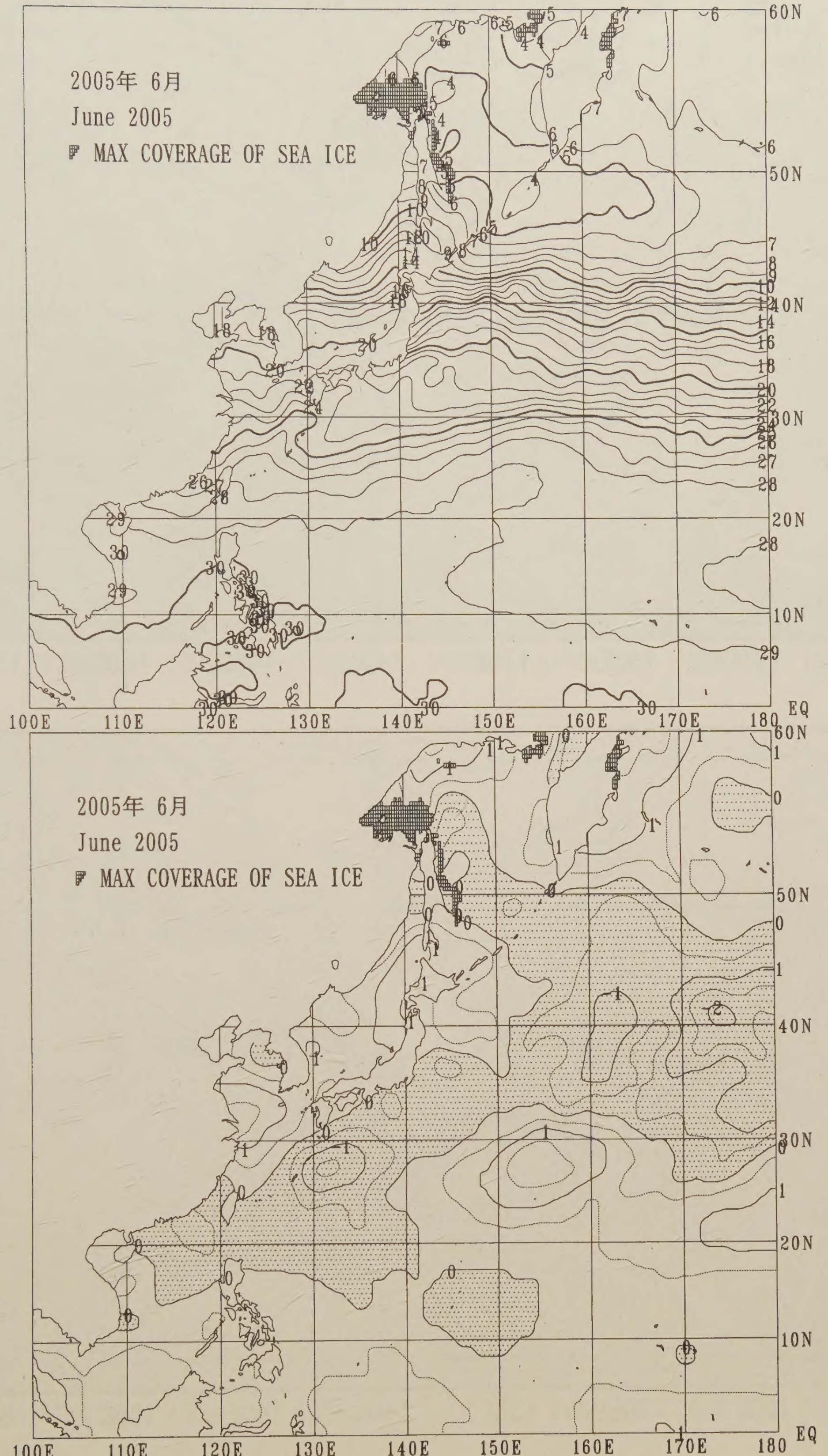
地点名 (Index Number)	水温 Temp.	偏差 Anom.
石　垣(47918)	27.7	-0.7
御前崎(47655)	21.6	0.1
小名浜(47598)	15.6	-0.3
宮　古(47585)	13.8	0.1
江　差(47428)	18.1	1.5
浜　田(47755)	24.5	2.9



第3図 北西太平洋旬平均海面水温図(上)及び偏差図(下) (2005年 6月下旬)

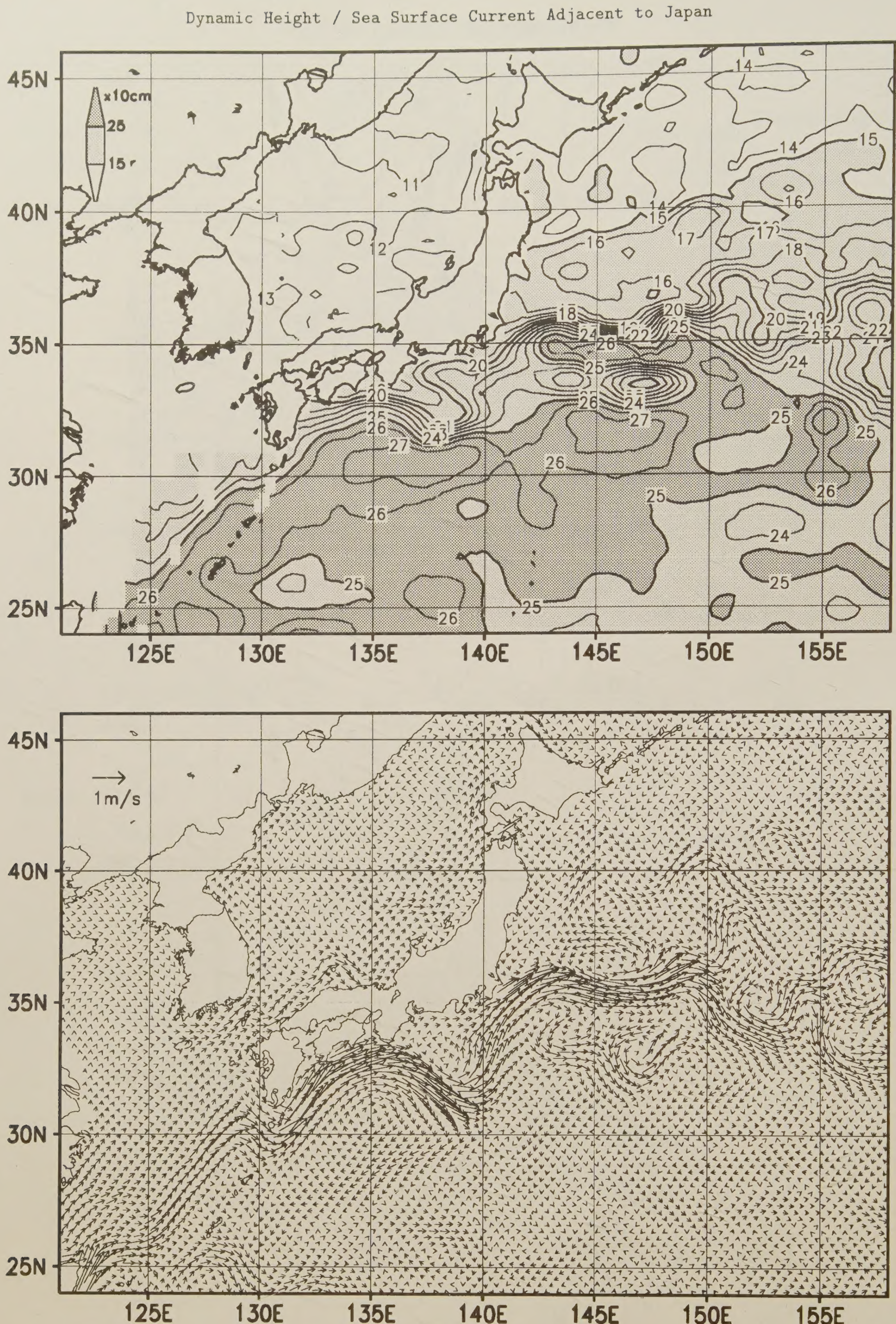
Fig. 3 Ten-day mean SST (top) and anomalies (bottom) in the western North Pacific for the 3rd ten-day period in June 2005. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are stippled.

Monthly Mean SST & Anomalies



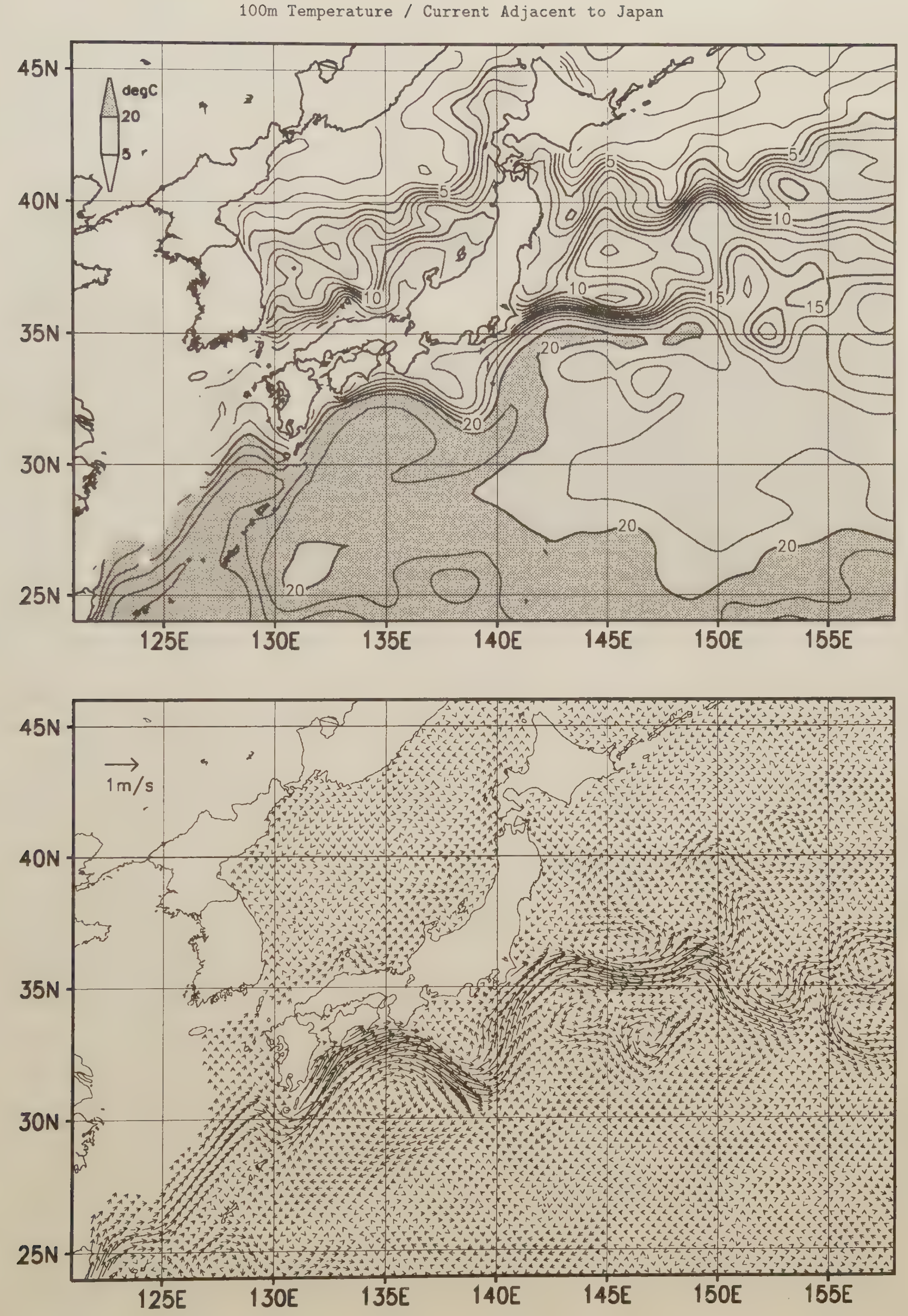
第4図 北西太平洋月平均海面水温図(上)及び偏差図(下) (2005年 6月)

Fig. 4 Monthly mean SST (top) and anomalies (bottom) in the western North Pacific for June 2005. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of 0.5°C are shown by broken lines. Negative anomalies are stippled.



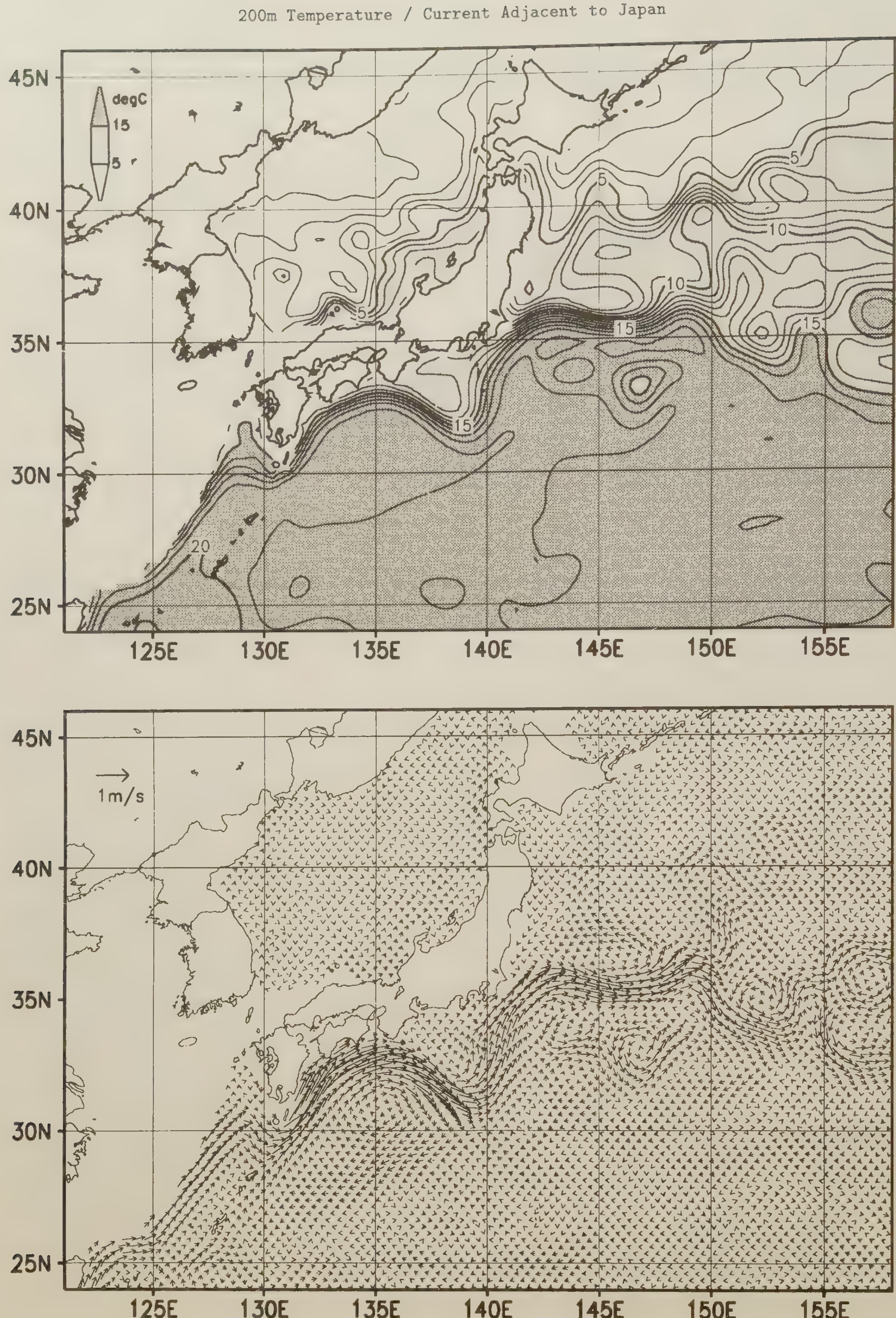
第 5 図　日本近海月平均海面高度分布図 (上) と海面海流図 (下) (2005 年 6 月)
(海洋総合解析システムによる)

Fig. 5　Monthly mean sea surface height (top) and current (bottom) in seas adjacent to Japan for June 2005. Contour interval is 10cm (top). (calculated by the Ocean Comprehensive Analysis System)



第 6 図　日本近海月平均表層水温図（上）と表層海流図（下）（深さ 100 m）（2005 年 6 月）
（海洋総合解析システムによる）

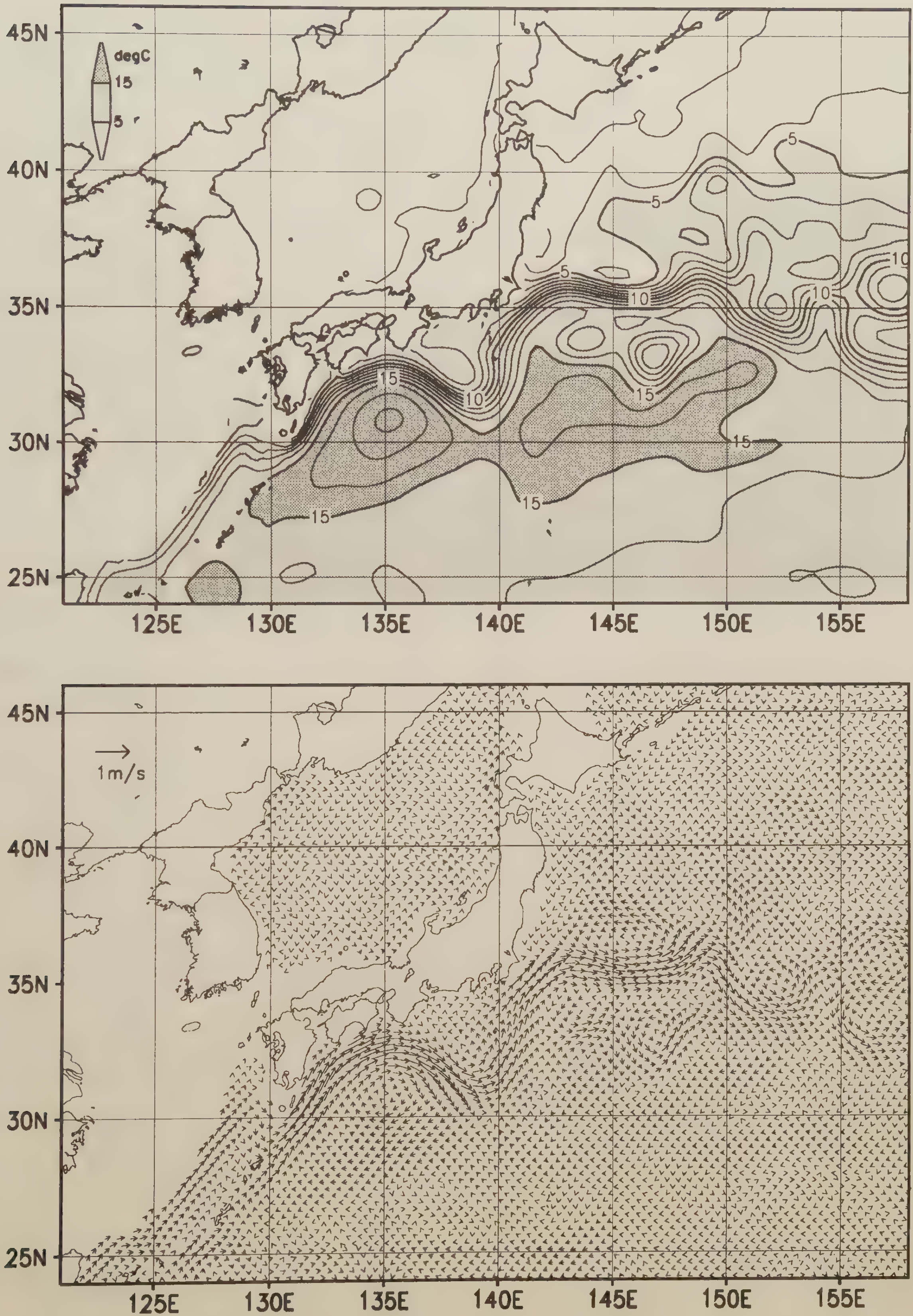
Fig. 6　Monthly mean subsurface (100 m) temperature (top) and current (bottom) in seas adjacent to Japan for June 2005. Contour interval is 1 ℃ (top). (calculated by the Ocean Comprehensive Analysis System)



第 7 図　日本近海月平均表層水温図（上）と表層海流図（下）（深さ 200 m）（2005 年 6 月）
（海洋総合解析システムによる）

Fig. 7　Monthly mean subsurface (200 m) temperature (top) and current (bottom) in seas adjacent to Japan for June 2005. Contour interval is 1 ℃ (top). (calculated by the Ocean Comprehensive Analysis System)

400m Temperature / Current Adjacent to Japan



第 8 図　日本近海月平均表層水温図（上）と表層海流図（下）　(深さ 400 m)（2005 年 6 月）
（海洋総合解析システムによる）

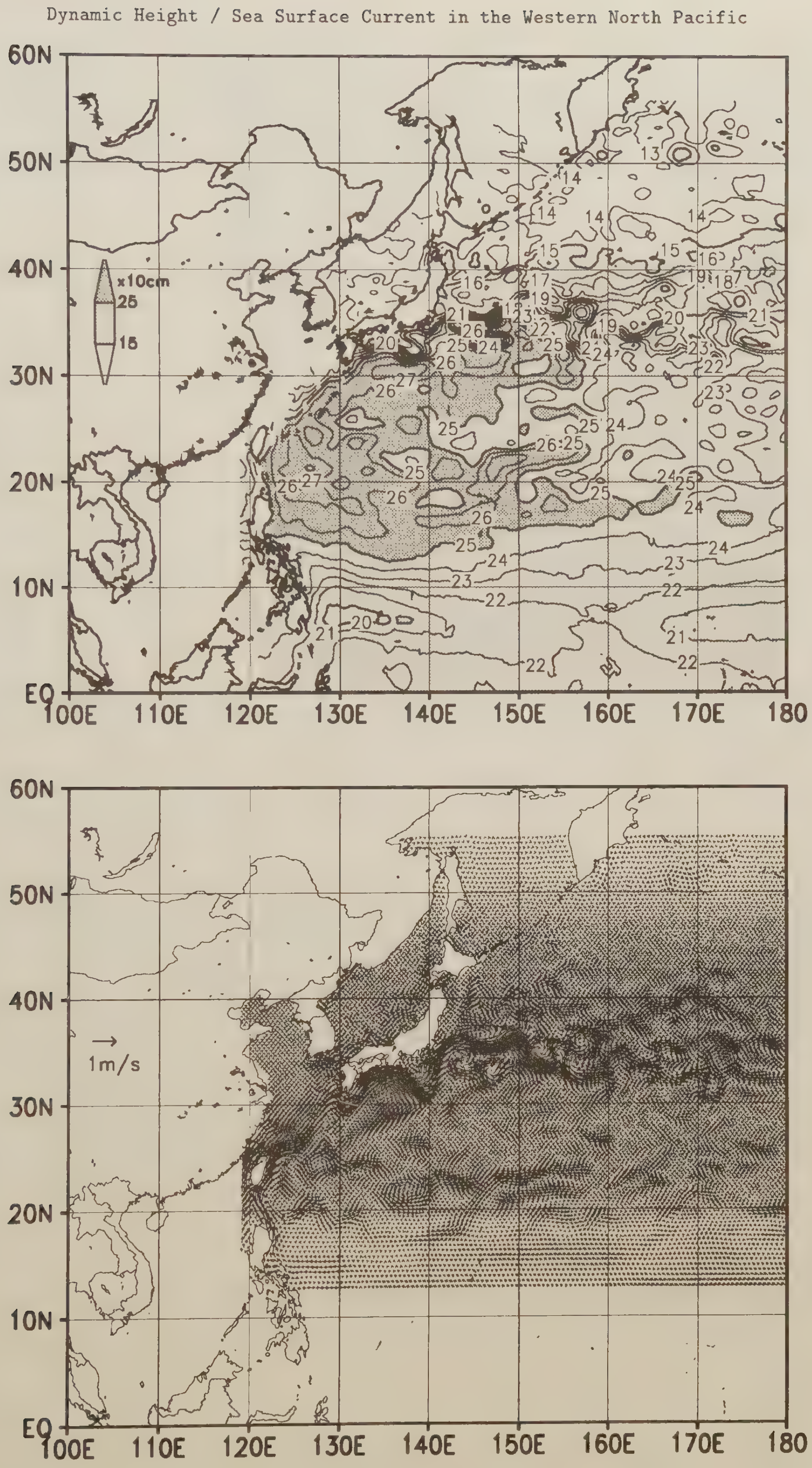
Fig. 8　Monthly mean subsurface (400 m) temperature (top) and current (bottom) in seas adjacent to Japan for June 2005. Contour interval is 1 ℃ (top). (calculated by the Ocean Comprehensive Analysis System)

Location of the Kuroshio axis



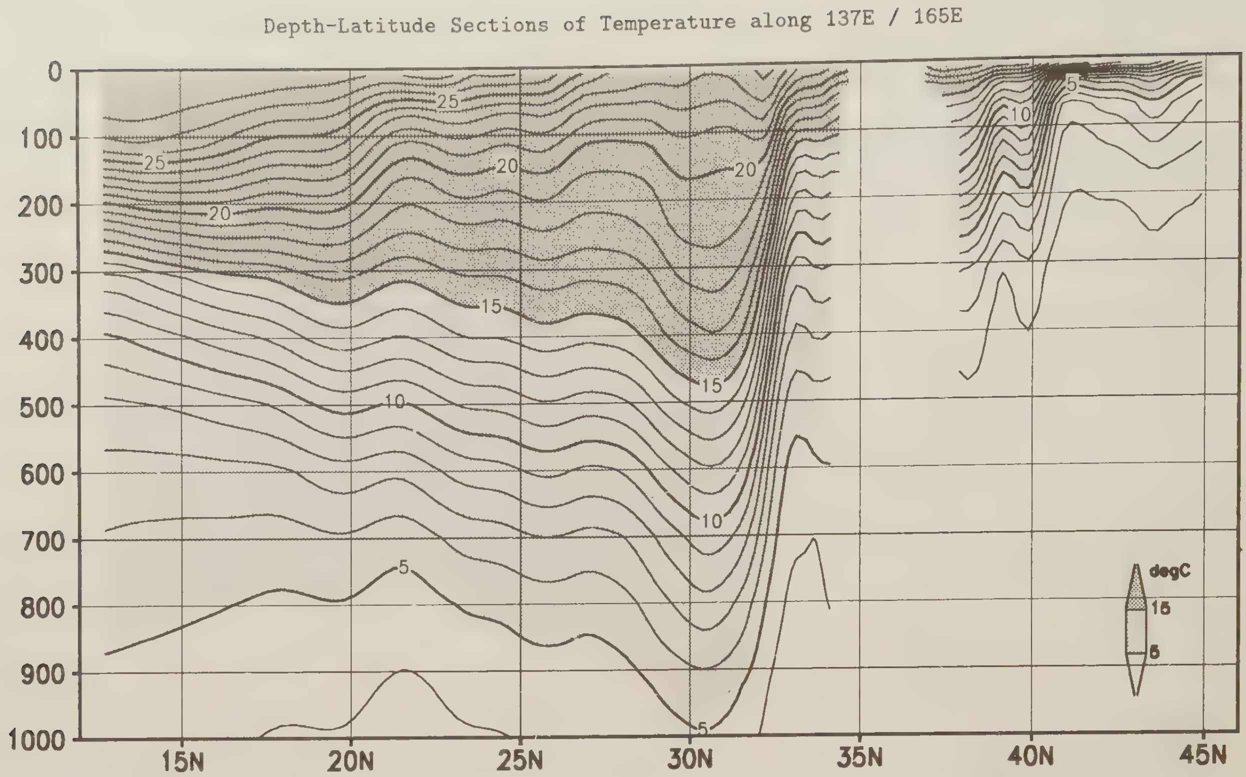
第9図 旬別黒潮流軸図

Fig. 9 Location of the Kuroshio axis



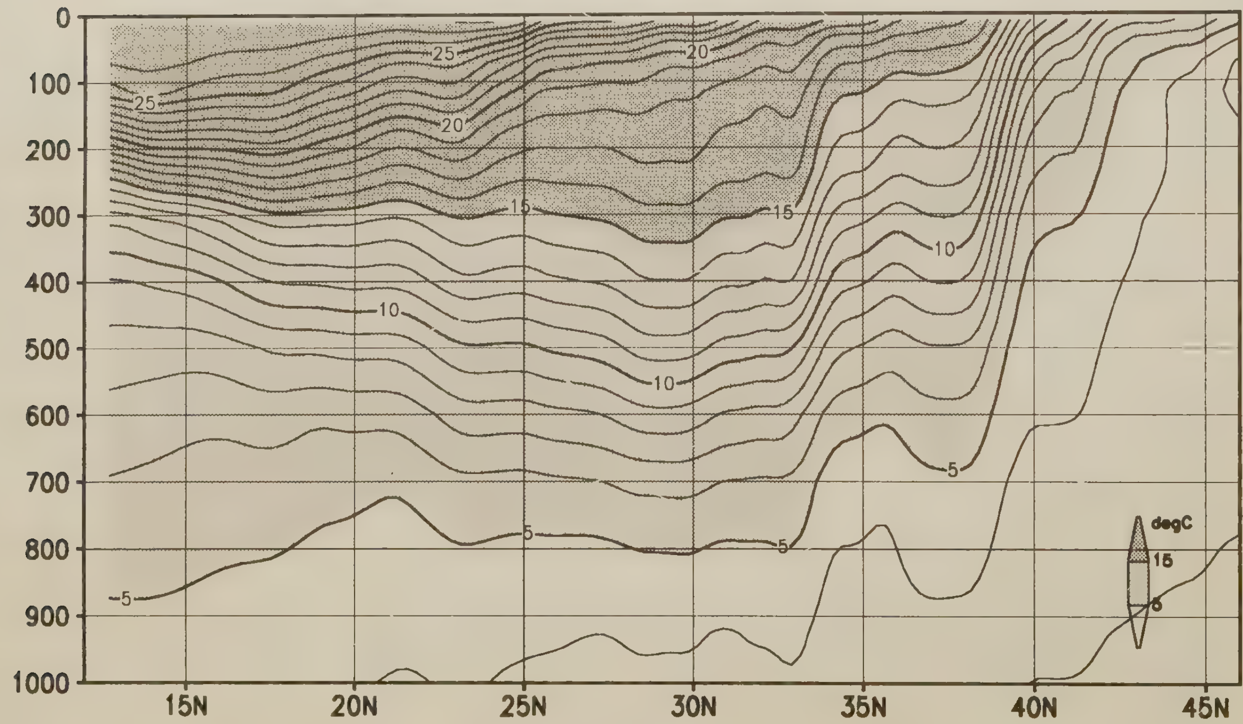
第 10 図　北西太平洋月平均海面高度分布図 (上) と海面海流図 (下) (2005 年 6 月)
(海洋総合解析システムによる)

Fig. 10　Monthly mean sea surface height (top) and current (bottom) in the western North Pacific for June 2005. Contour interval is 10cm (top). (calculated by the Ocean Comprehensive Analysis System)



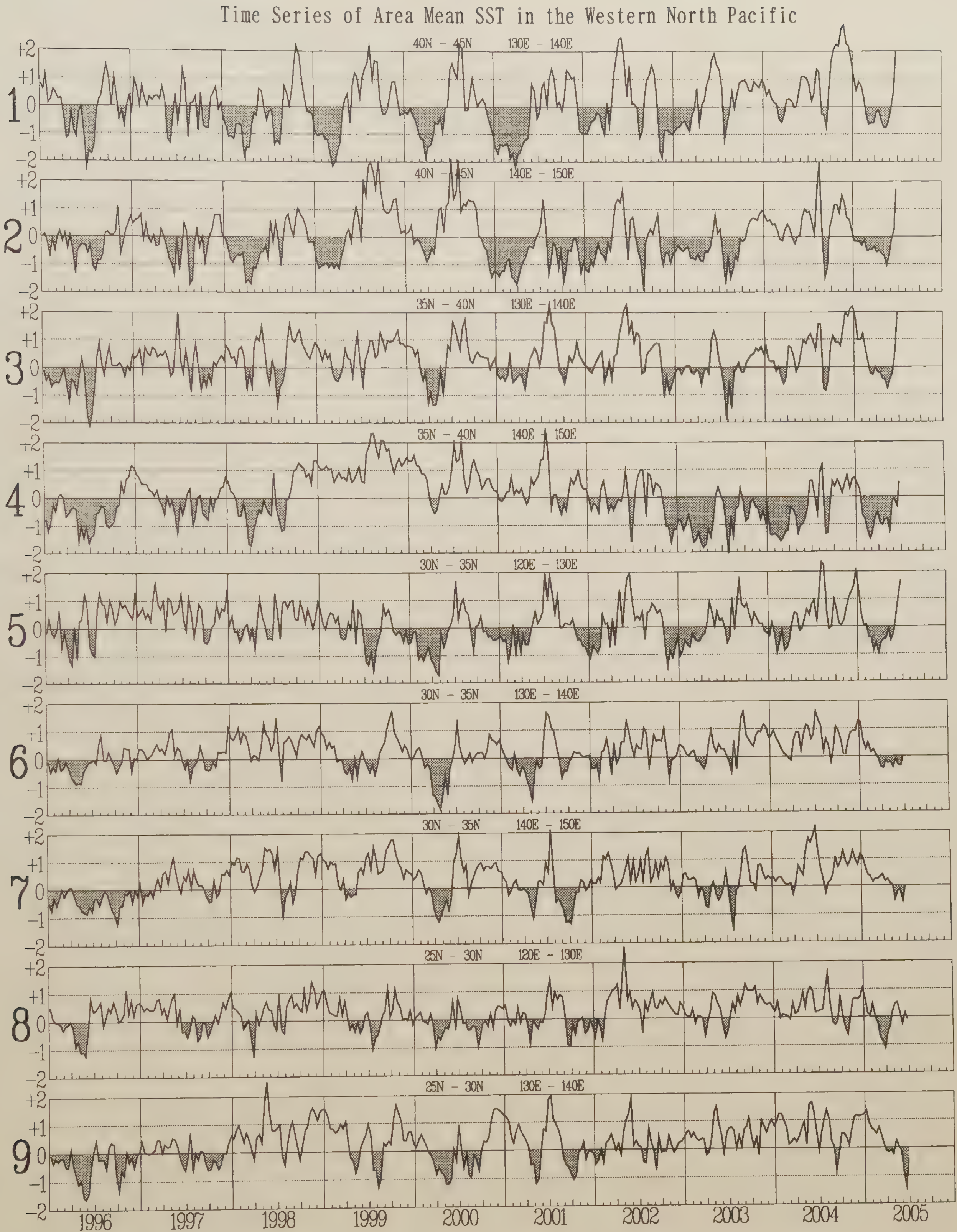
第 11 図　東経 137°線に沿う月平均表層水温の鉛直断面図 （2005 年 6 月）
（海洋総合解析システムによる）

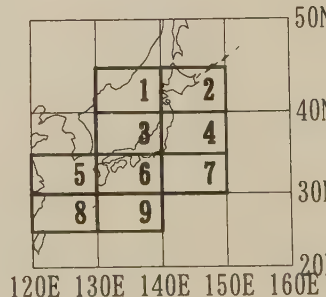
Fig. 11　Vertical cross section of monthly mean temperature along 137 °E for June 2005. Contour interval is 1 °C. (calculated by the Ocean Comprehensive Analysis System)



第 12 図　東経 165°線に沿う月平均表層水温の鉛直断面図 （2005 年 6 月）
（海洋総合解析システムによる）

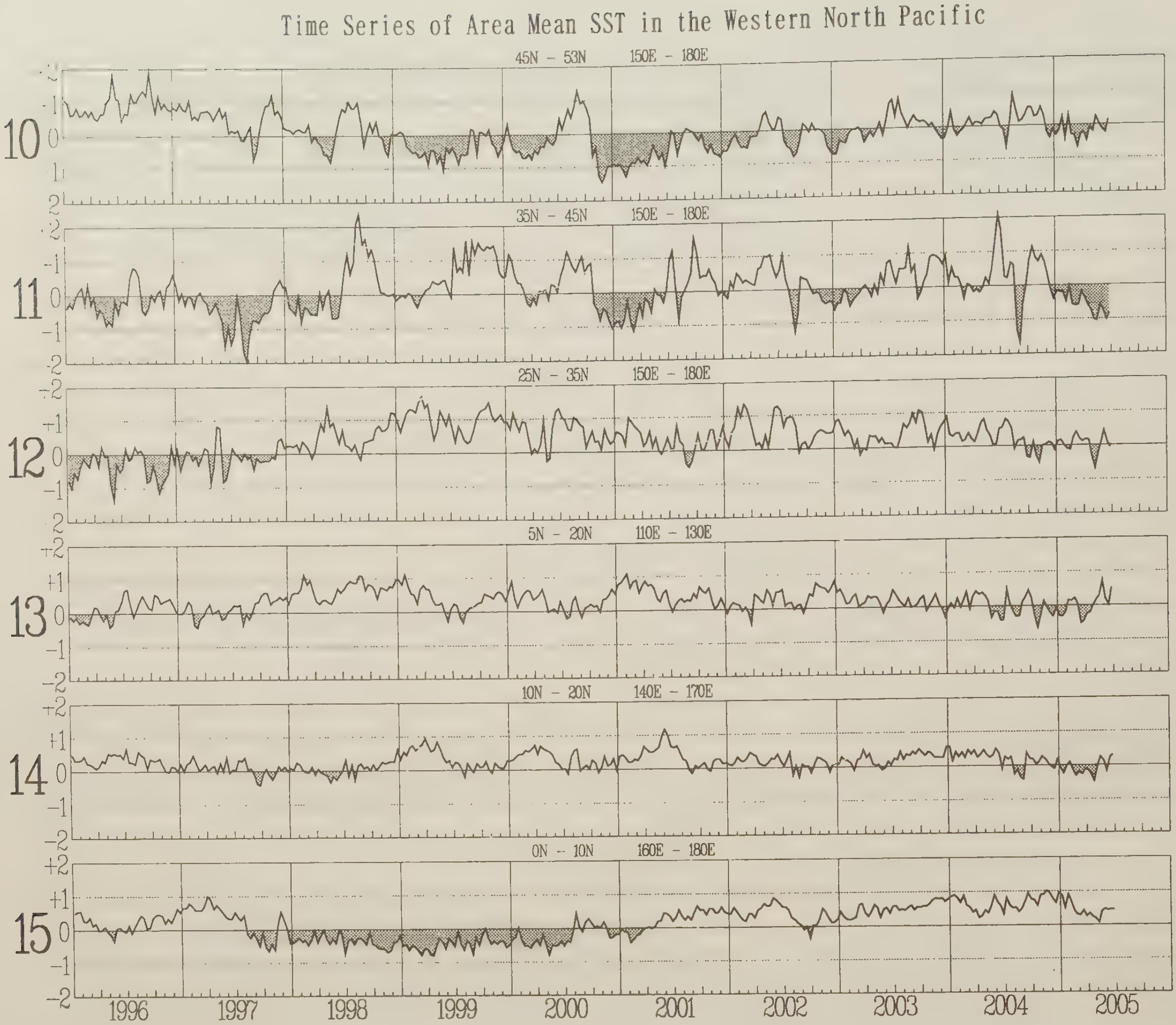
Fig. 12　Vertical cross section of monthly mean temperature along 165 °E for June 2005. Contour interval is 1 °C. (calculated by the Ocean Comprehensive Analysis System)





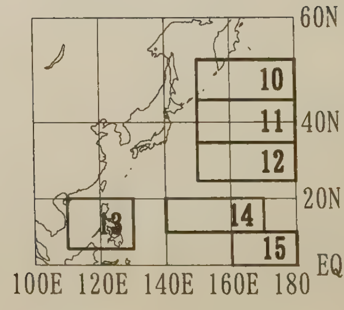
第13図　海域別旬平均海面水温平年偏差時系列図

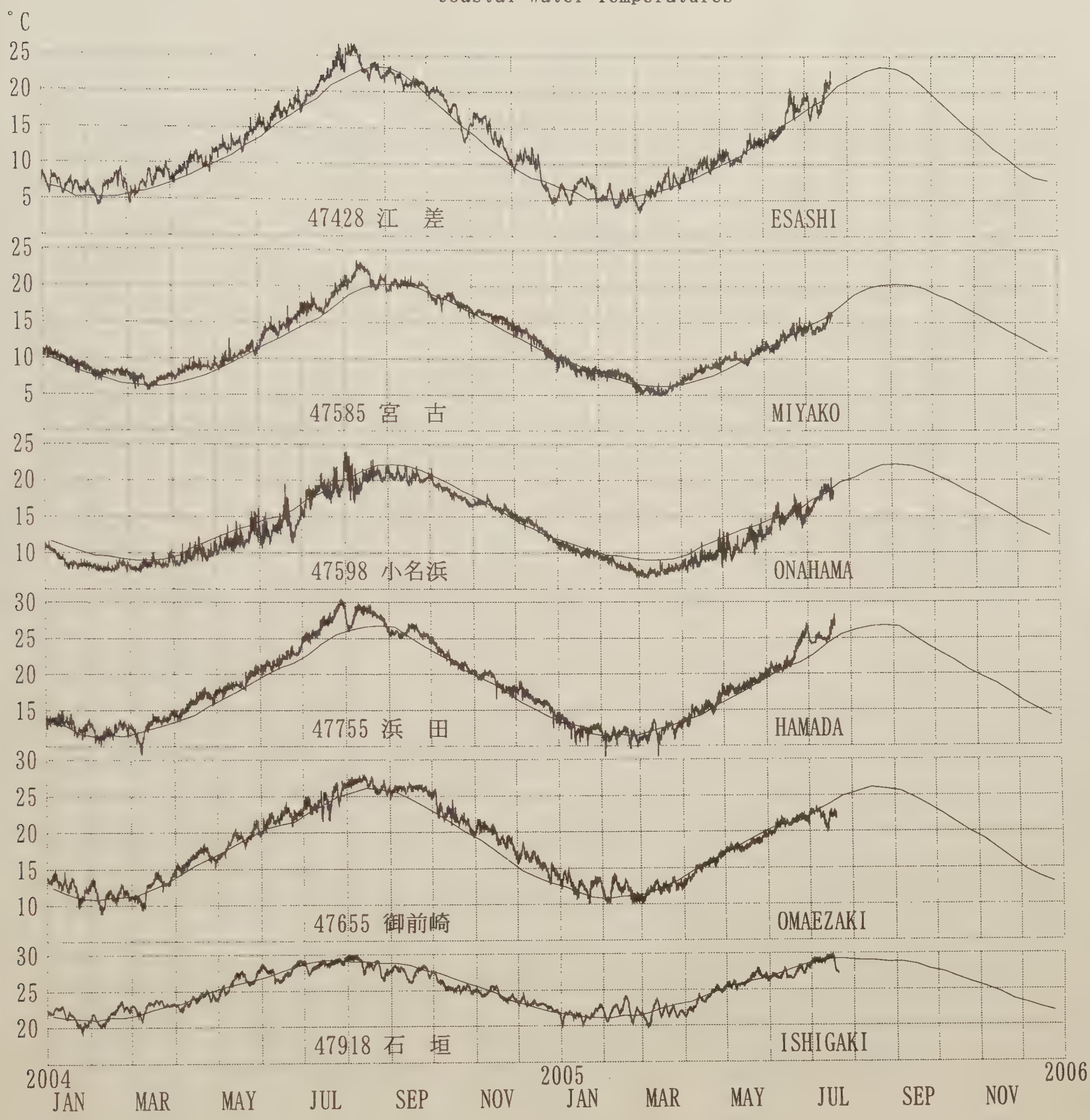
Fig. 13 Time series of the ten-day mean SST anomalies (°C) averaged for the sub-areas shown in the right panel. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1971-2000).



第13図　海域別旬平均海面水温平年偏差時系列図（つづき）

Fig. 13 (continued) Time series of the ten-day mean SST anomalies (°C) averaged for the sub-areas shown in the right panel. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1971-2000).

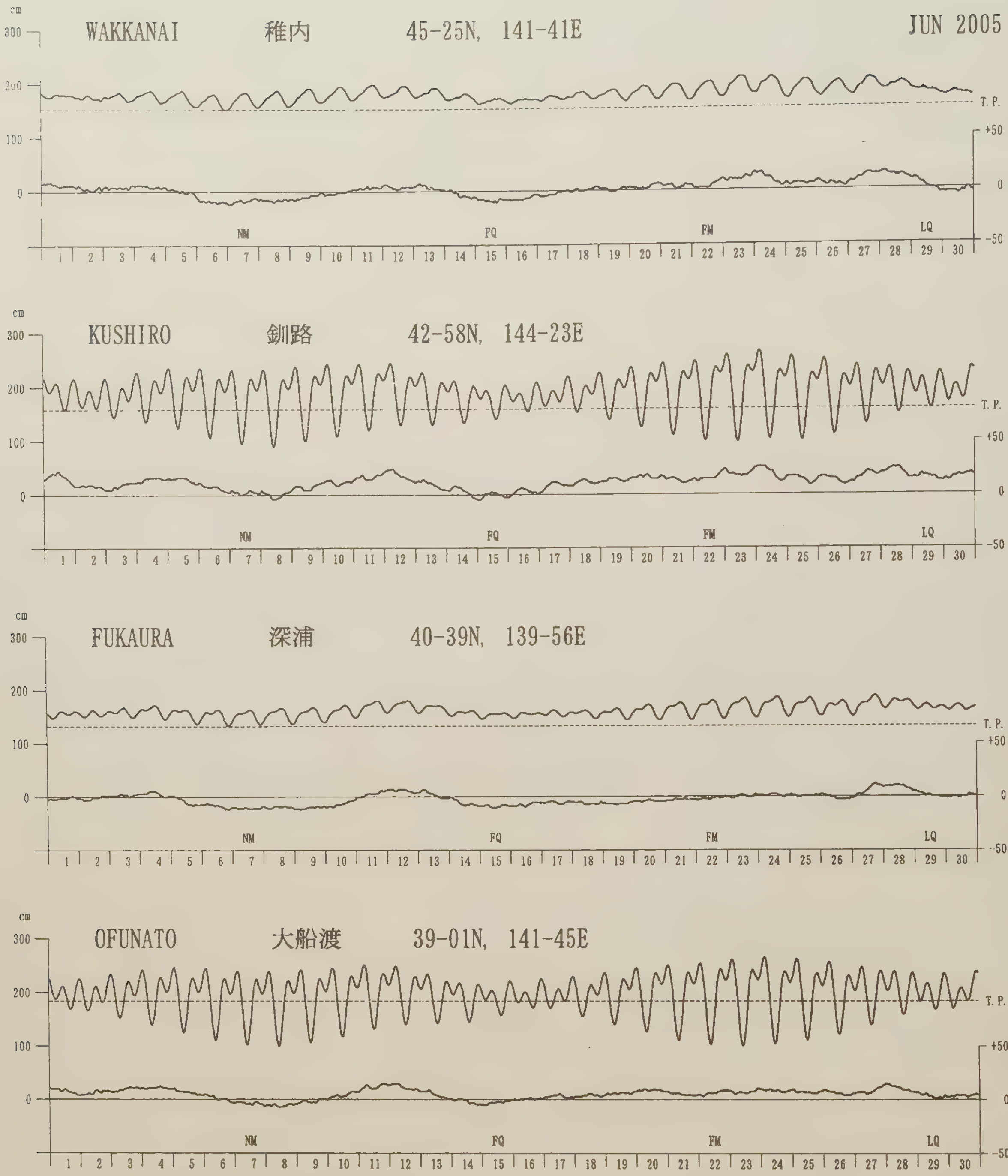






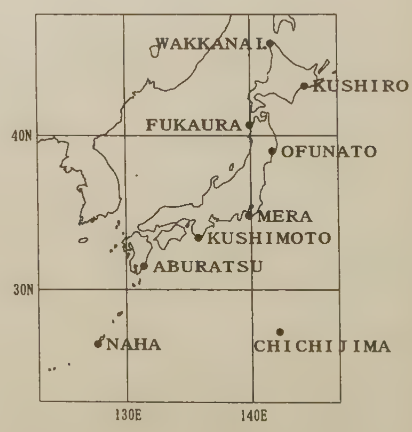
第14図 沿岸水温時系列図

Fig. 14 Time series of hourly coastal water temperatures (°C) measured at 6 coastal stations of the JMA shown in the right panel.
Thin lines show ten-day mean climatology.

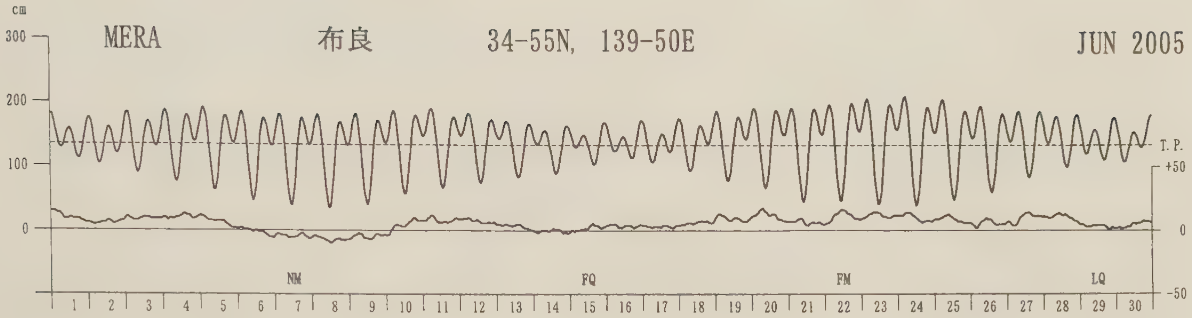


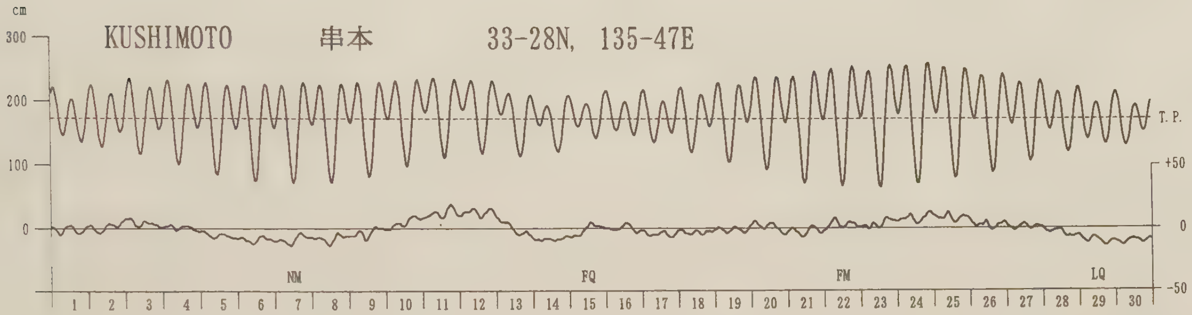
第15図 沿岸潮位時系列図（2005年 6月）

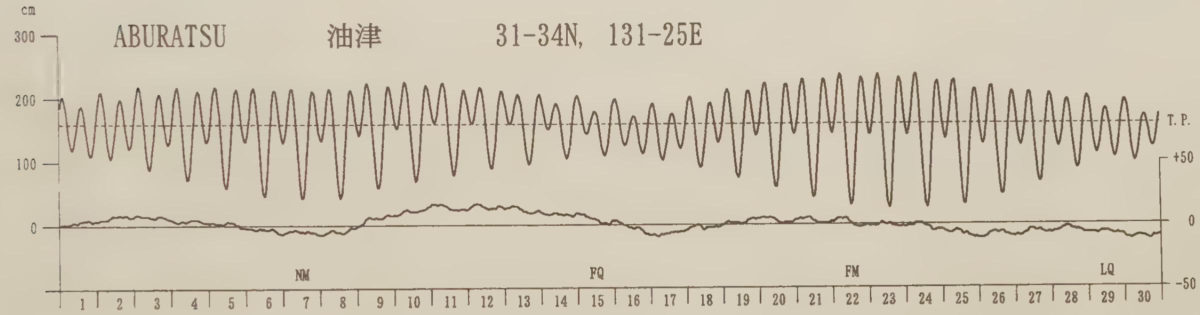
Fig. 15 Time series of hourly sea level observation (upper line) and its anomalies (lower line) at 9 stations of the JMA in the right panel.
Short term variations are filtered out from raw data.

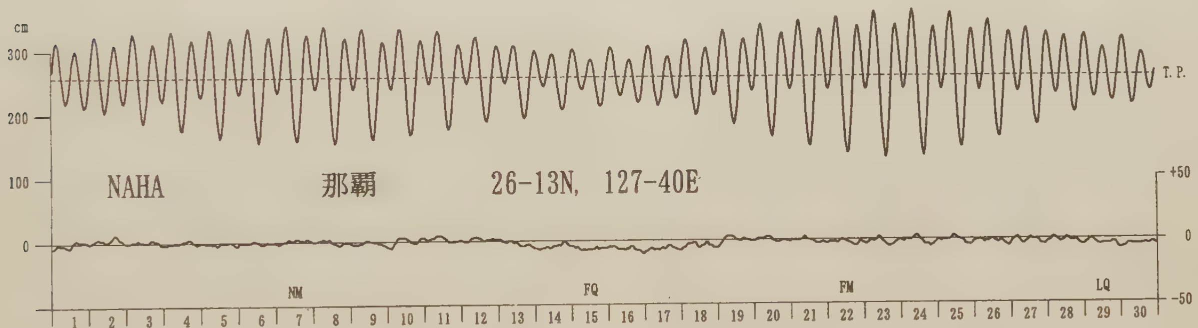


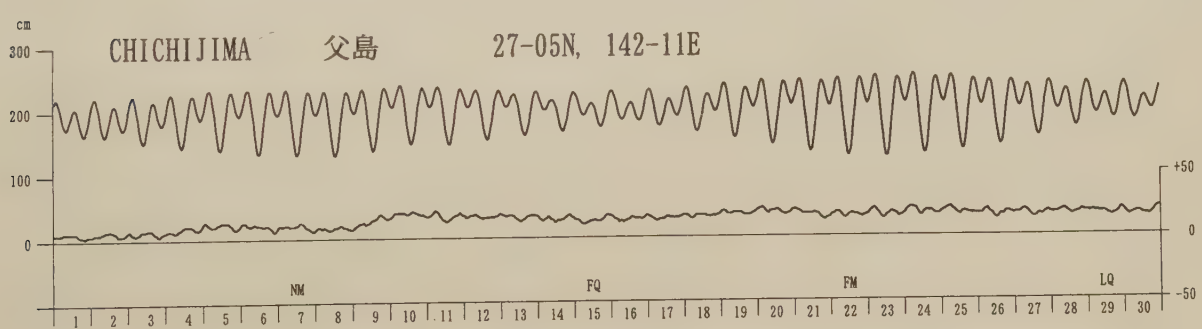
NM: new moon, FQ: first quarter
FM: full moon, LQ: last quarter
T. P. : Mean sea level of Tokyo Bay (Tokyo Peil)





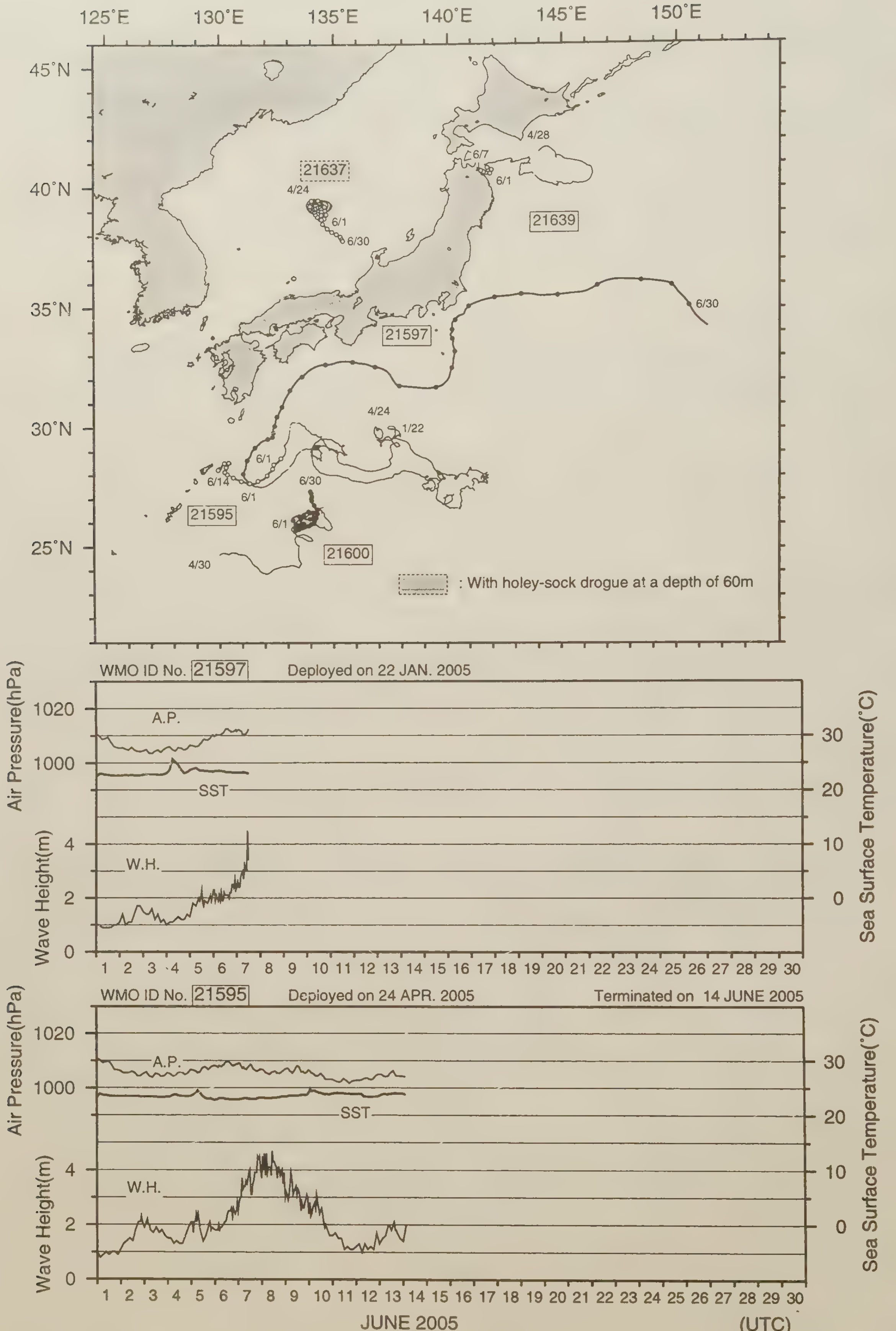






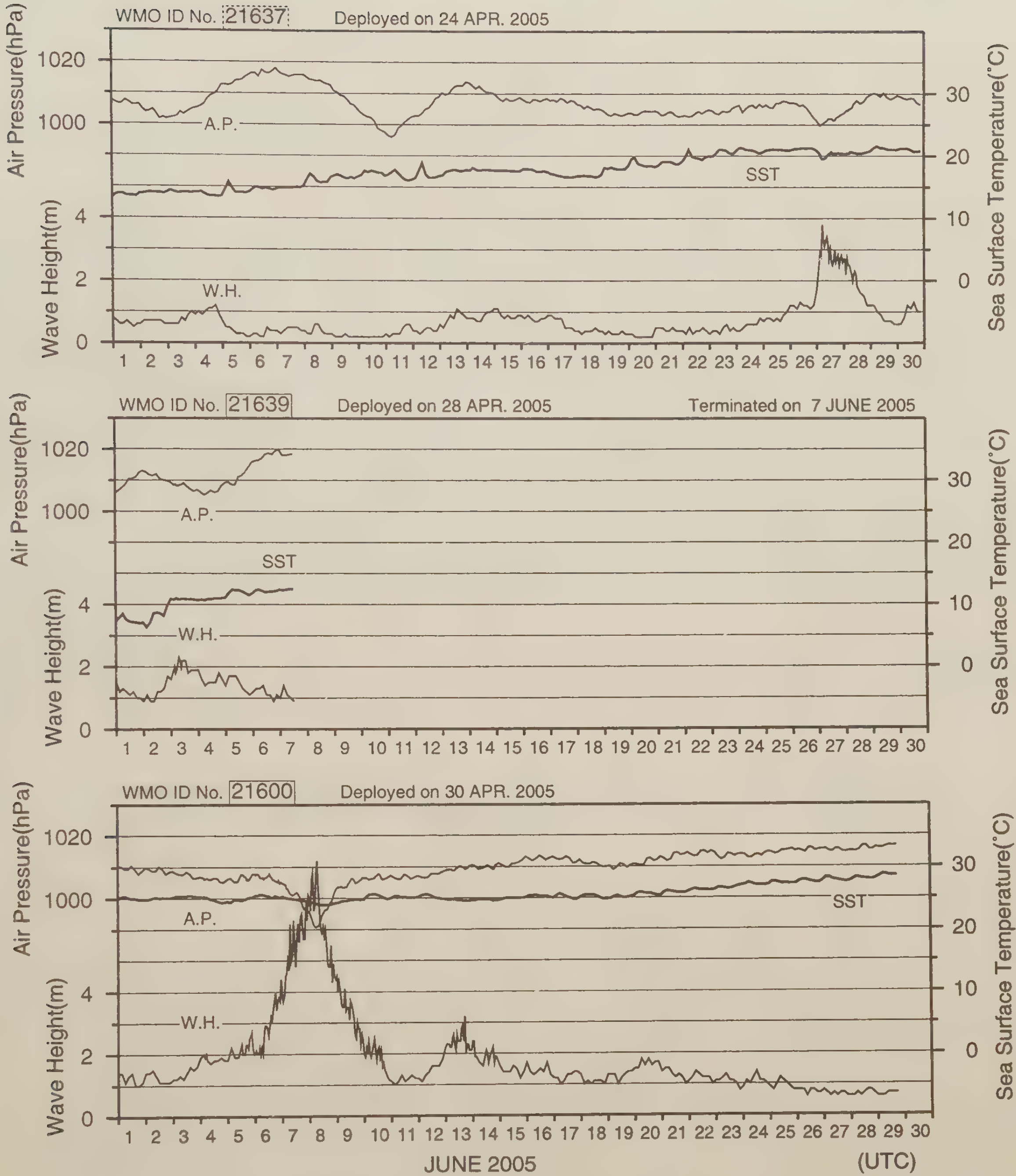
第15図 つづき

Fig. 15 (continued)

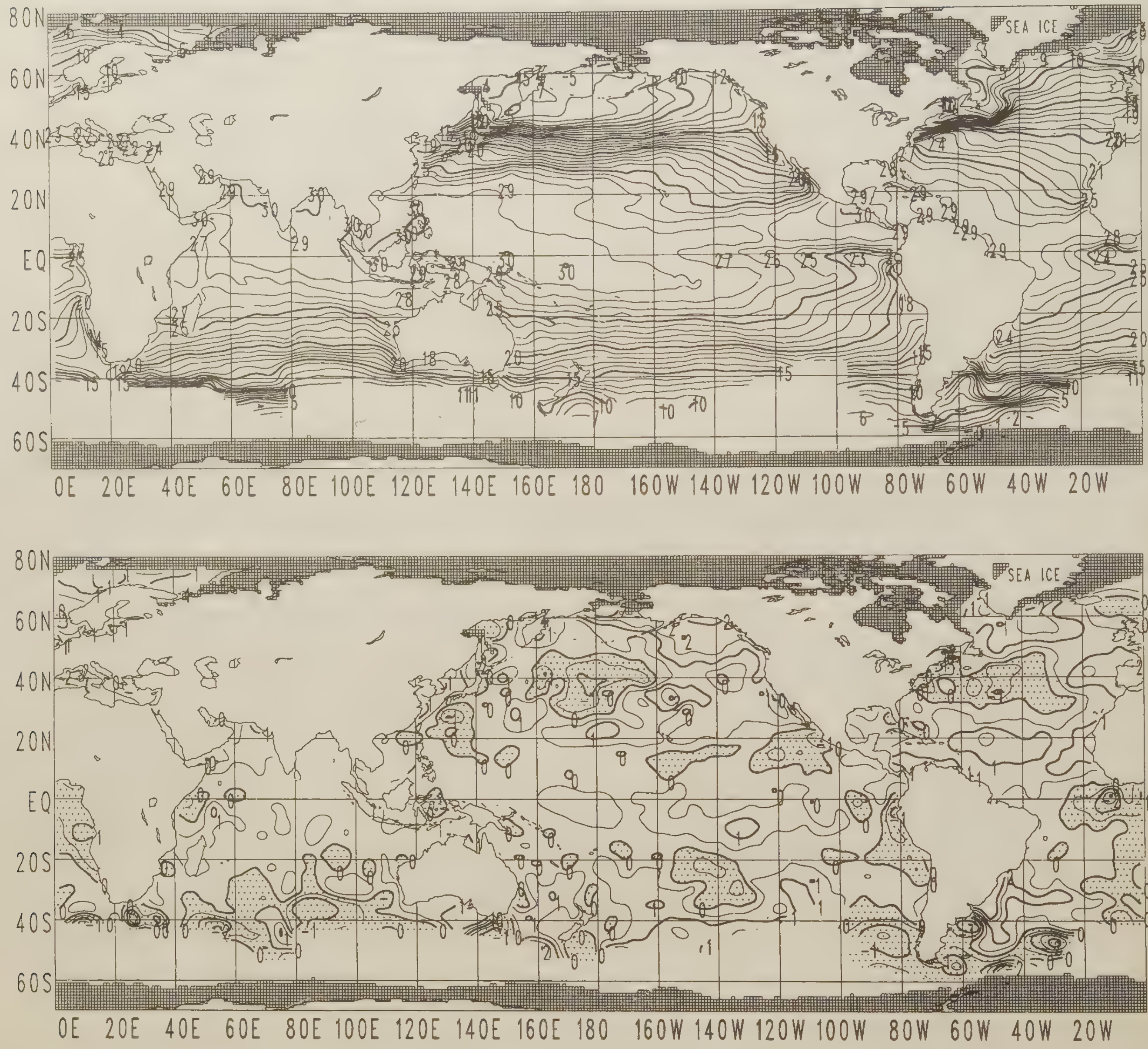


第16図　漂流型海洋気象ブイロボットの軌跡と観測要素の時系列図

Fig.16 Time series of JMA drifting buoy observation.
The upper panel shows paths of the buoys. Circles denote the position at 00h UTC everyday.
The lower panel shows time series of observation data.



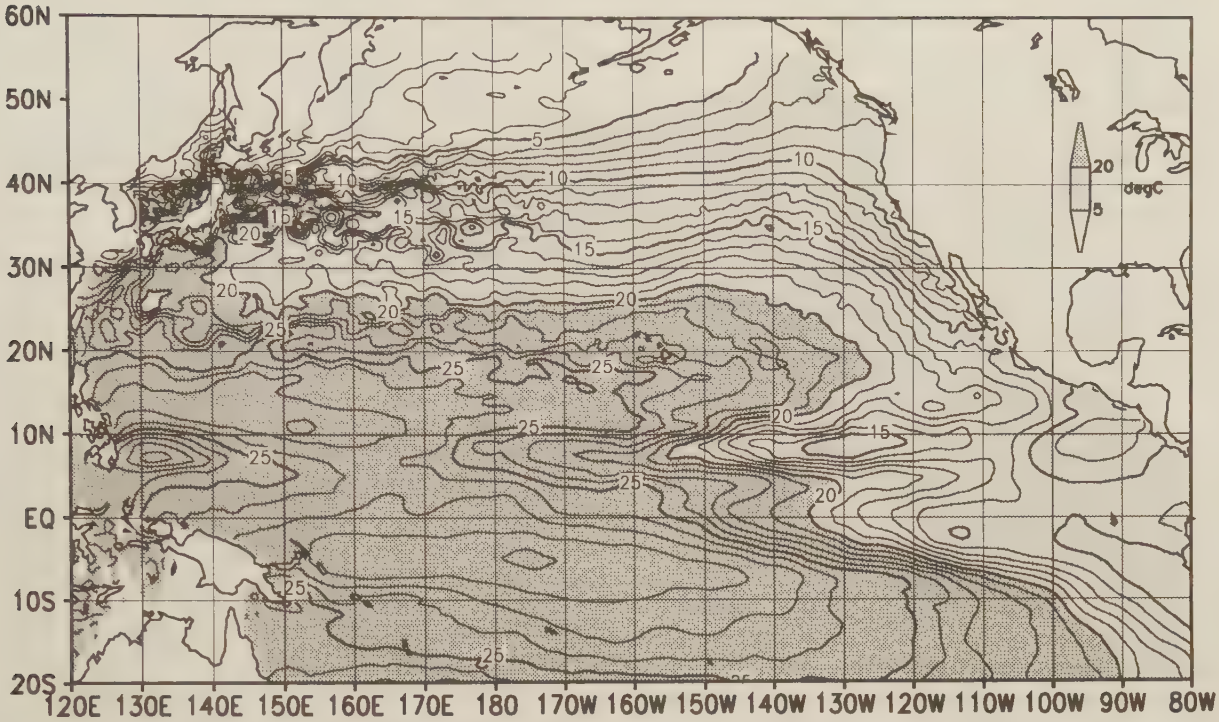
第16図 つづき
Fig.16 (continued)



第17図　全球月平均海面水温図（上）及び偏差図（下）（2005年 6月）

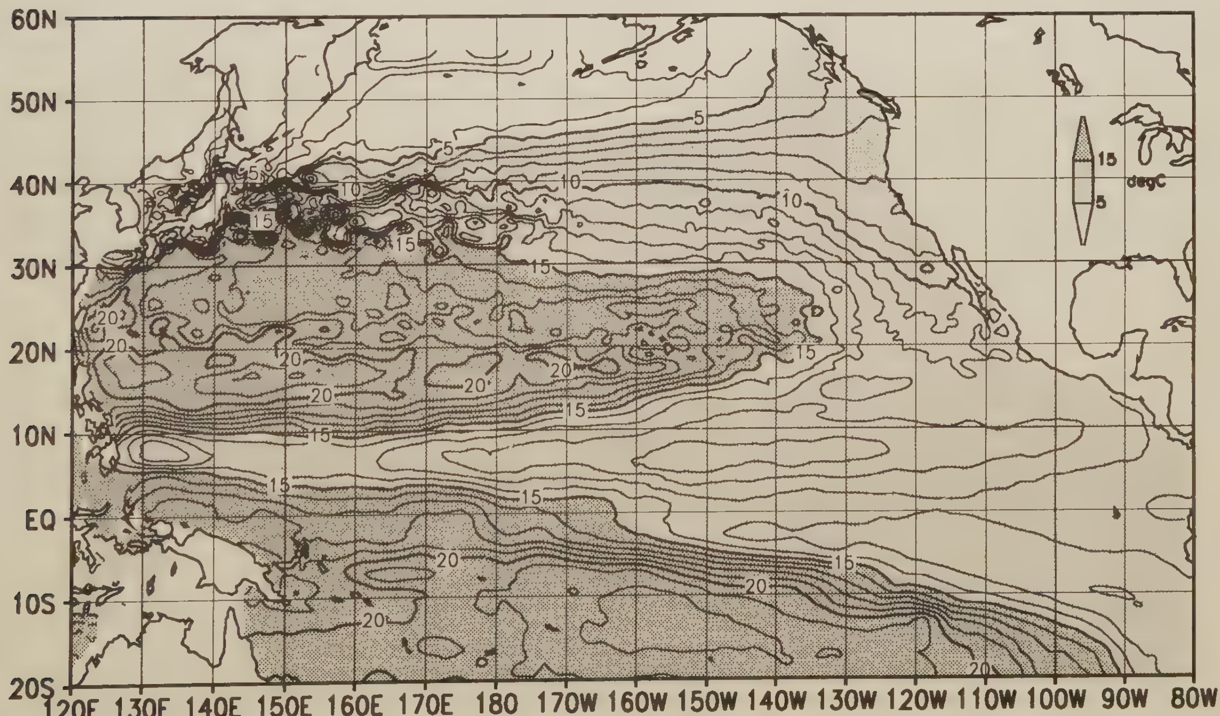
Fig. 17 Monthly mean SST over the global ocean (top) and anomalies (bottom) for June 2005. Anomalies are computed from the JMA climatology (1971-2000). Contour interval is 1°C and additional anomaly contours of ±0.5°C are shown by thin lines. Negative anomalies are stippled. Maximum coverage of sea ice is shaded. Data sources for sea ice are U.S. National Ice Center (polar regions) and JMA (the Sea of Okhotsk).

100m / 200m Temperature in the Pacific Ocean



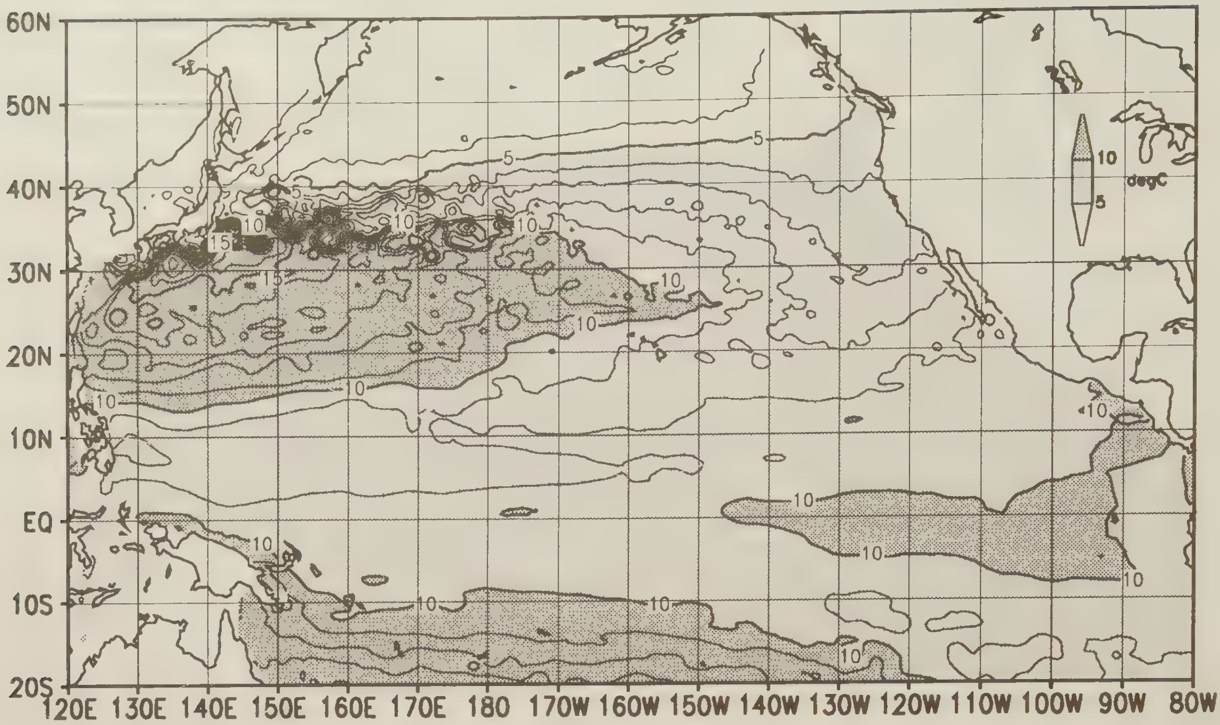
第 18 図　太平洋月平均表層水温図（深さ 100 m）　(2005 年 6 月）
（海洋総合解析システムによる）

Fig. 18　Monthly mean subsurface (100 m) temperature in the Pacific Ocean for June 2005. Contour interval is 1 ℃. (calculated by the Ocean Comprehensive Analysis System)



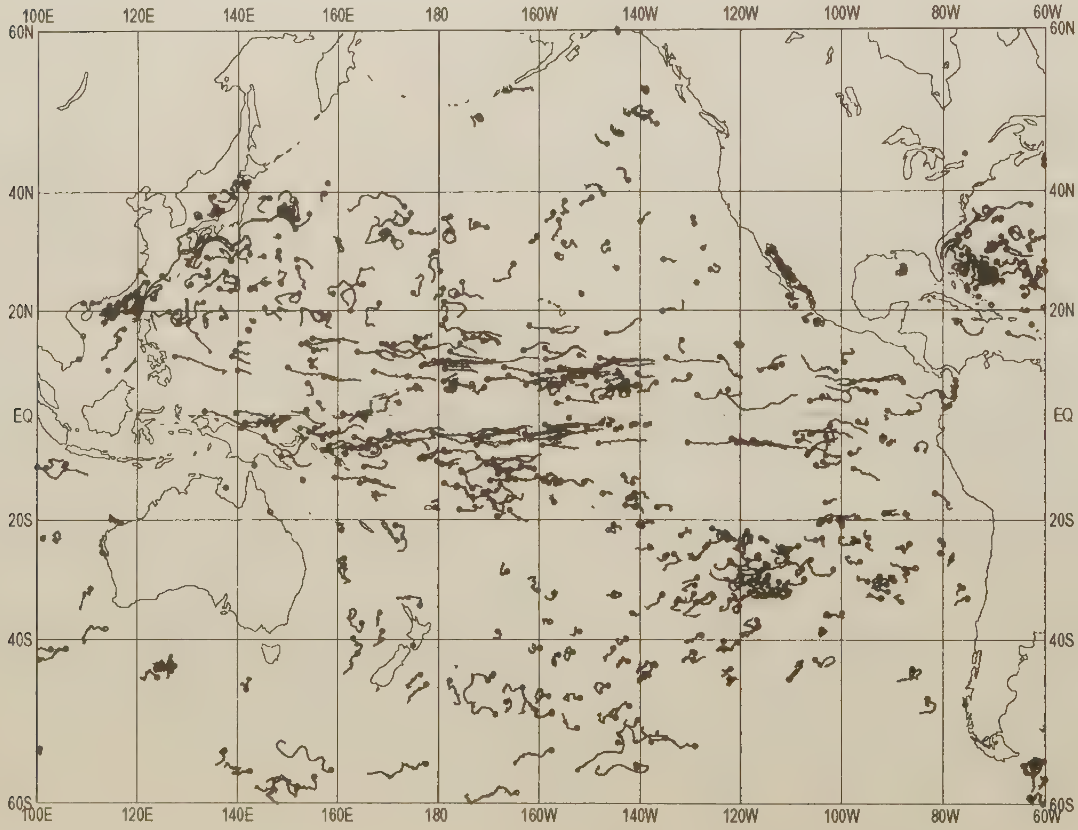
第 19 図　太平洋月平均表層水温図（深さ 200 m）　(2005 年 6 月）
（海洋総合解析システムによる）

Fig. 19　Monthly mean subsurface (200 m) temperature in the Pacific Ocean for June 2005. Contour interval is 1 ℃. (calculated by the Ocean Comprehensive Analysis System)



第 20 図　太平洋月平均表層水温図（深さ 400 m）　（2005 年 6 月）
（海洋総合解析システムによる）

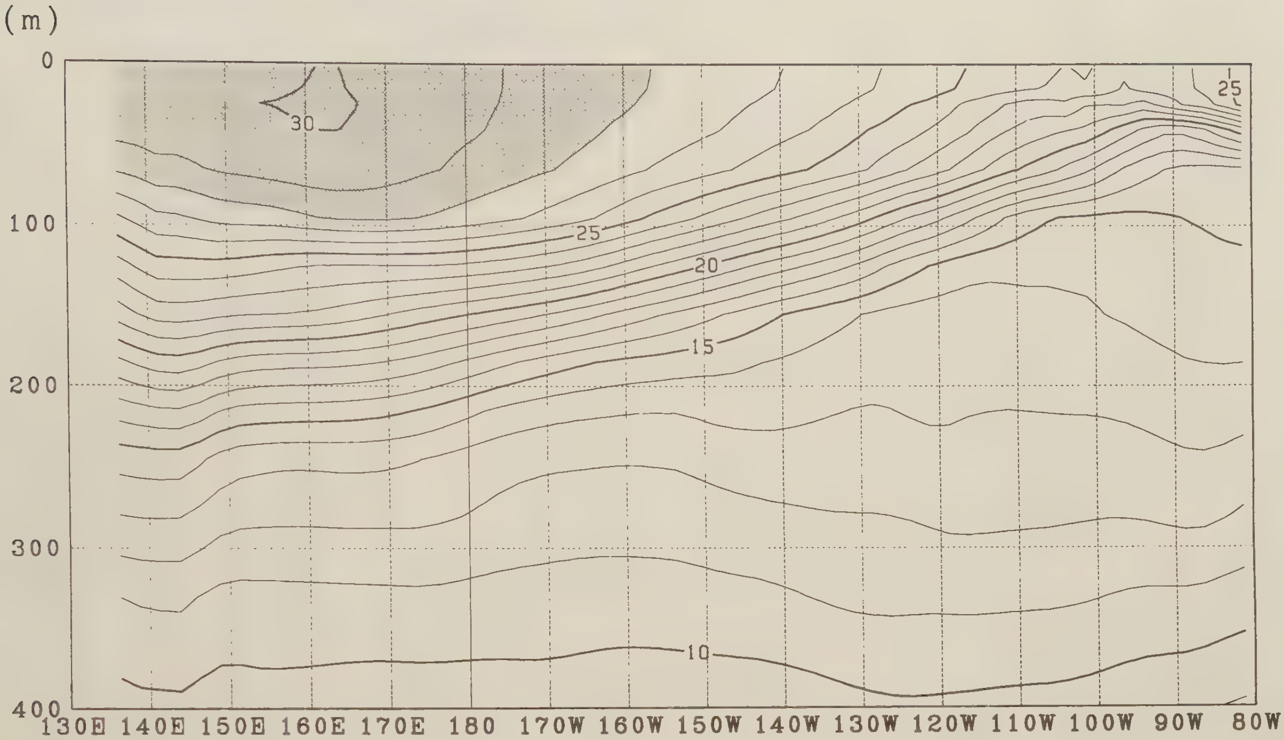
Fig. 20　Monthly mean subsurface (400 m) temperature in the Pacific Ocean for June 2005. Contour interval is 1 ℃. (calculated by the Ocean Comprehensive Analysis System)

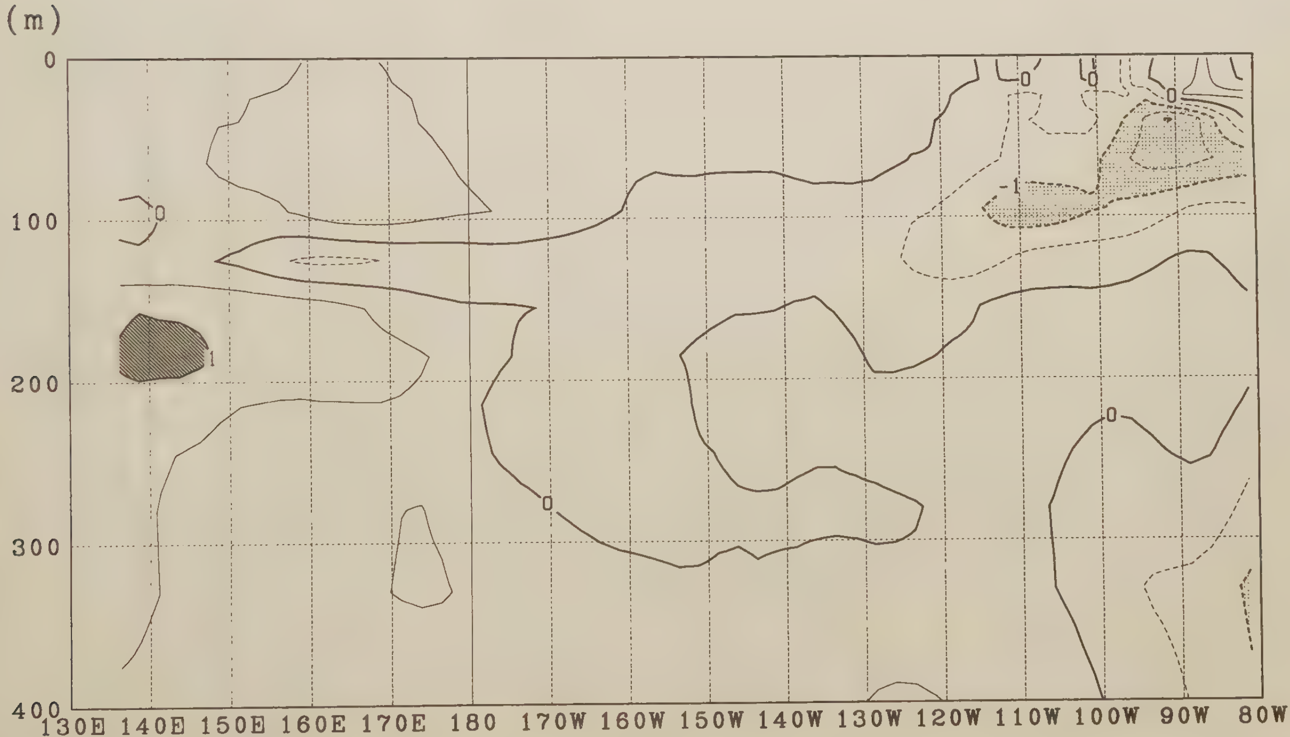


第 21 図　太平洋ブイ流跡図（2005 年 6 月）

Fig. 21　Trajectories of drifting buoys in the Pacific Ocean during June 2005. Each track is for one buoy. Small circles represent the last positions for the month.

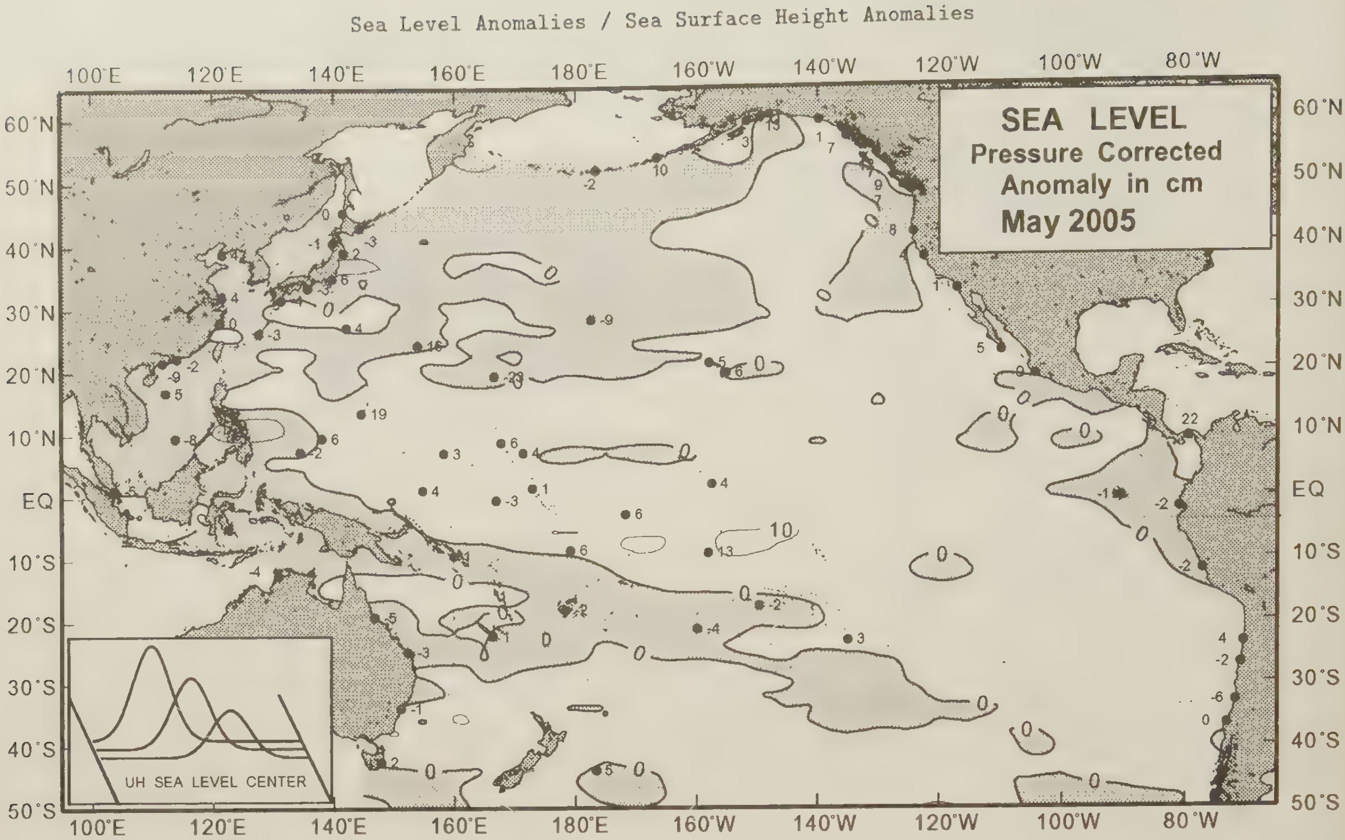
Depth-Longitude Sections of Equatorial Temperature & Anomalies





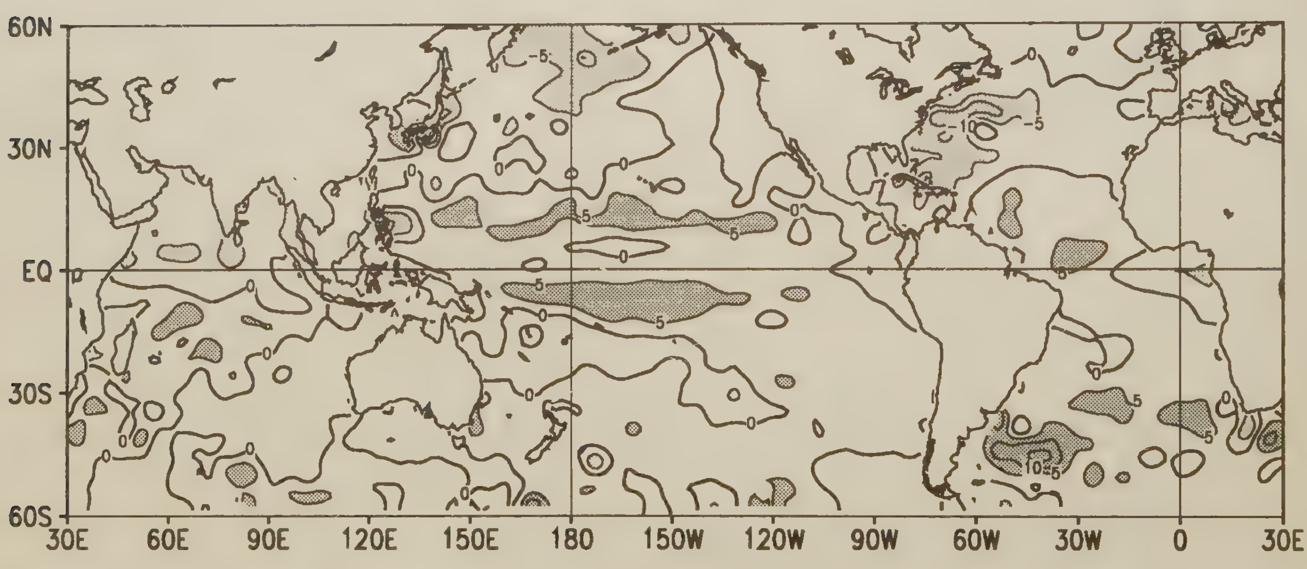
第22図　太平洋赤道に沿う表層水温（上）及び偏差（下）の深度－経度断面図（2005年 6月）

Fig. 22　Depth-longitude sections of temperature (top) and anomalies (bottom) along the equator in the Pacific Ocean for June 2005.　Data are derived from the Ocean Data Assimilation System of JMA.　Contour intervals are 1°C (top) and 0.5°C (bottom).　Values greater than 28°C in the top panel are shaded.　In the bottom panel, values greater than 1°C are dark-shaded and values less than -1°C are light-shaded.　Anomalies are computed from 1987-2004 base period means.



第 23 図　太平洋月平均海面水位偏差図（2005 年 5 月）

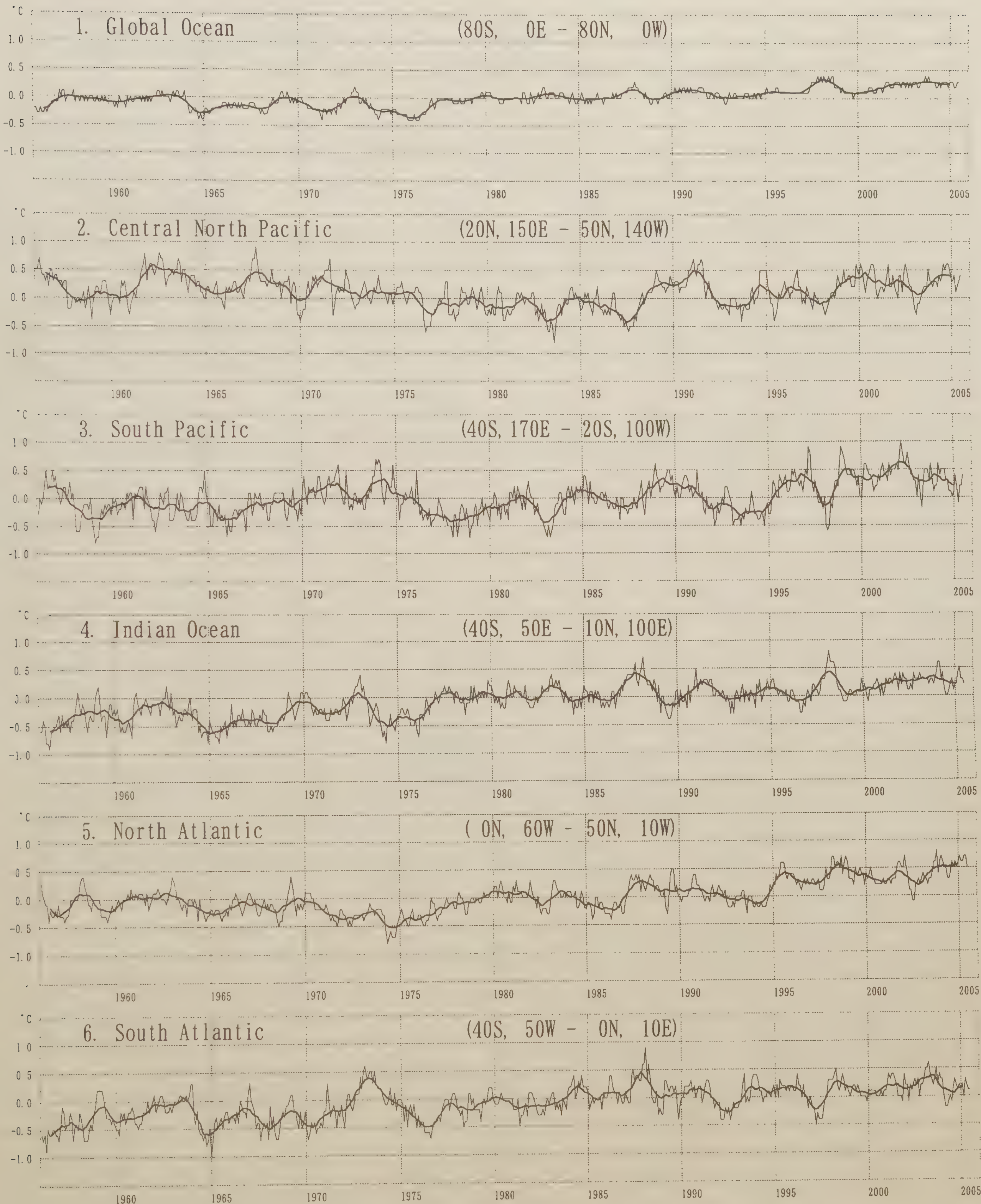
Fig. 23　Monthly sea level anomalies for May 2005 obtained from mean sea level (1993-2001) adjusted for atmospheric pressure. This figure is prepared by the SOC of ISLP-PAC, Department of Oceanography, University of Hawaii.



第 24 図　全球月平均海面高度偏差図（2005 年 5 月）

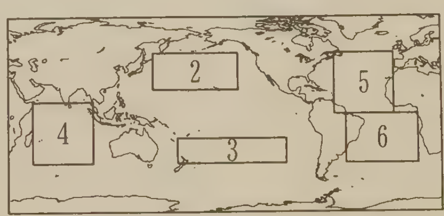
Fig. 24　Monthly sea surface height anomalies in the global ocean derived from the altimeter data of Jason-1 for May 2005. Contour interval is 5 cm. Positive anomalies exceeding +5 cm are dark-shaded and negative anomalies exceeding -5 cm are light-shaded. Anomalies are computed from 1993-1998 base period means.

Long-term Variation of Monthly Mean SST Anomalies

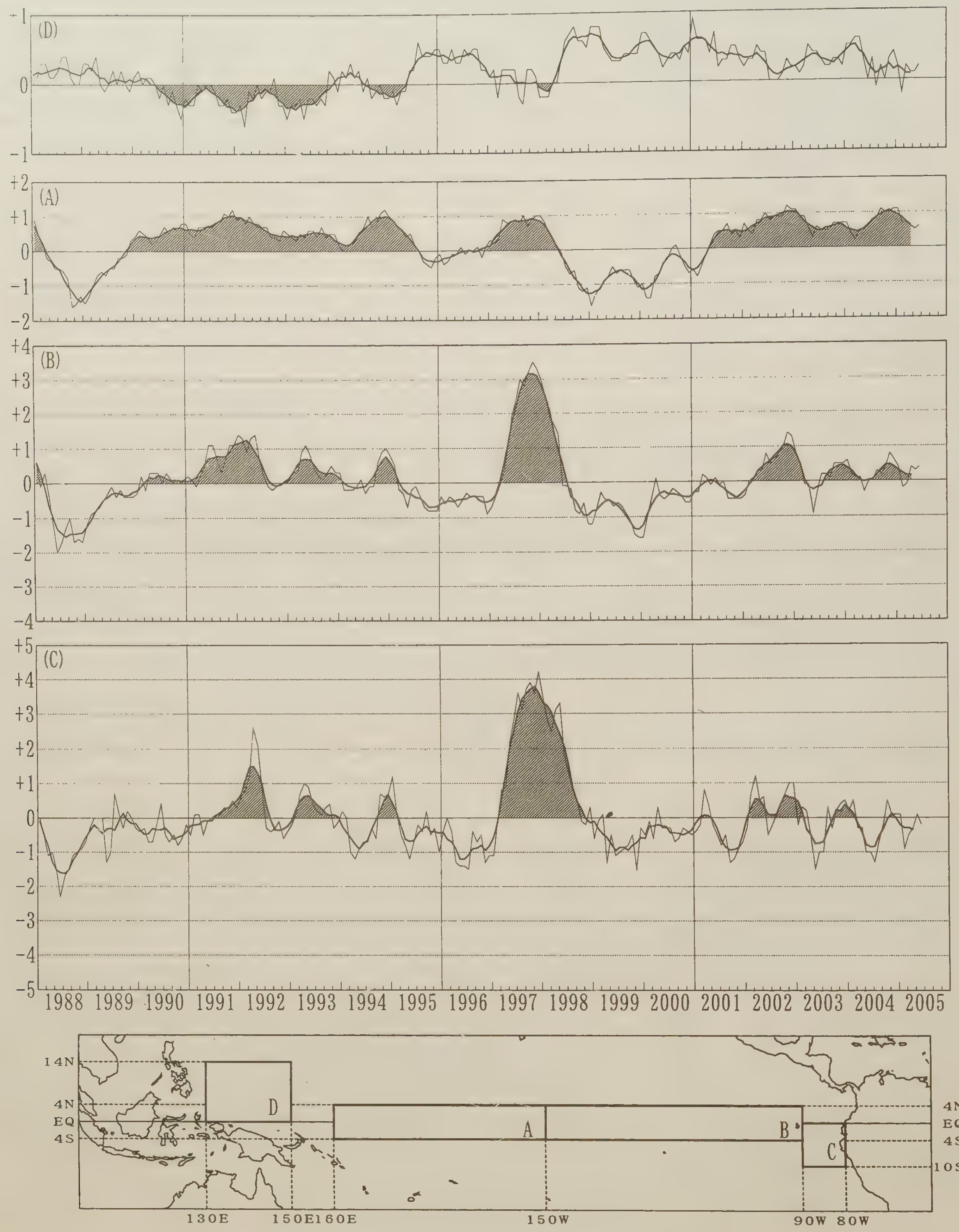


第25図 海域平均海面水温偏差の長期変動

Fig. 25 Long-term variations of monthly mean SST anomalies (°C) averaged for the sub-areas shown in the right panel. Anomalies are computed from the JMA climatology (1971-2000). Thin lines show the monthly mean and thick lines their 13-month running means.



Time Series of Tropical Pacific SST Anomalies



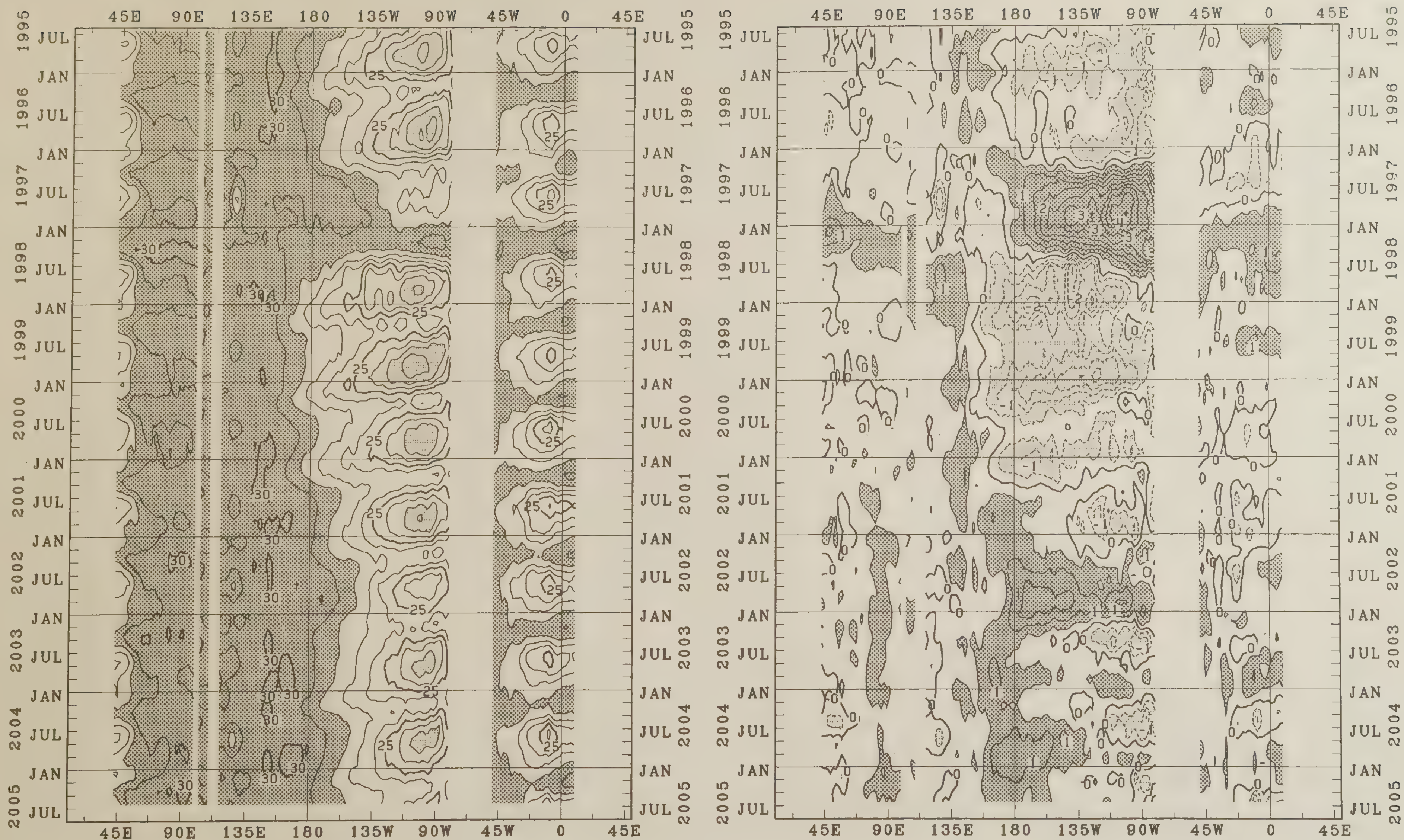
第26図　太平洋熱帯域の海面水温偏差時系列図

Fig. 26 Time series of monthly mean SST anomalies (°C) in the tropical Pacific Ocean for the areas indicated at the bottom panel. Thin lines show the monthly means and thick lines their 5-month running means. Positive anomalies (A, B, C) and negative anomalies (D) are shaded. Anomalies are computed from the JMA climatology (1971-2000).

MONTH YEAR	SEA SURFACE TEMPERATURE AND ANOMALY (°C)								SOI	SEA LEVEL PRESSURE ANOMALY (hPa)	
	REGION D 14N-EQ 130E-150E		REGION A 4N-4S 160E-150W		REGION B 4N-4S 150W-90W		REGION C EQ-10S 90W-80W		SOI	TAHITI 17-33S 149-37W	DARWIN 12-24S 130-52E
JAN 03	28.7	0.2	29.1	1.1	26.2	0.8	24.3	-0.2	-0.1	-0.1	0.2
FEB 03	28.4	0.1	28.9	0.9	26.8	0.5	26.3	0.3	-0.5	-1.5	-0.2
MAR 03	28.7	0.2	29.0	0.9	27.0	-0.1	26.5	0.2	-0.3	-0.2	0.5
APR 03	29.3	0.5	28.8	0.6	27.1	-0.1	24.9	-0.5	-0.1	0.5	0.8
MAY 03	29.7	0.4	28.9	0.3	26.0	-0.9	22.8	-1.5	-0.6	-0.7	0.2
JUN 03	29.8	0.4	29.1	0.6	25.9	-0.3	21.9	-1.0	-0.9	-0.9	0.4
JUL 03	29.6	0.3	29.0	0.5	25.6	0.2	20.9	-1.0	0.2	0.7	0.3
AUG 03	29.4	0.2	28.9	0.5	24.9	0.2	21.2	0.3	0.0	-0.2	-0.1
SEP 03	29.5	0.2	28.9	0.5	24.8	0.1	20.2	-0.3	-0.1	-0.3	0.0
OCT 03	29.7	0.3	29.1	0.7	25.2	0.5	21.1	0.2	-0.1	-0.5	-0.4
NOV 03	29.6	0.3	29.1	0.7	25.2	0.5	22.2	0.4	-0.2	0.0	0.4
DEC 03	29.2	0.2	28.9	0.7	25.5	0.5	23.4	0.5	1.1	0.9	-1.1
JAN 04	29.0	0.5	28.7	0.7	26.0	0.6	24.7	0.2	-1.0	-1.5	0.9
FEB 04	28.8	0.5	28.4	0.4	26.5	0.2	26.5	0.5	0.8	1.4	-0.6
MAR 04	29.1	0.6	28.3	0.2	27.2	0.1	26.0	-0.3	0.1	-0.7	-1.3
APR 04	29.4	0.6	28.7	0.5	27.3	0.1	25.1	-0.3	-1.4	-1.0	1.3
MAY 04	29.6	0.3	29.1	0.5	26.6	-0.3	23.3	-1.0	1.2	0.9	-0.7
JUN 04	29.4	0.0	29.1	0.6	26.2	0.0	21.9	-1.0	-1.1	0.1	1.7
JUL 04	29.6	0.3	29.3	0.8	25.4	0.0	20.6	-1.3	-0.6	-0.2	0.9
AUG 04	29.1	-0.1	29.2	0.8	25.0	0.3	20.2	-0.7	-0.5	-0.5	0.3
SEP 04	29.5	0.2	29.5	1.1	24.9	0.2	20.3	-0.2	-0.2	0.4	0.9
OCT 04	29.4	0.0	29.4	1.0	25.1	0.4	21.4	0.5	-0.2	0.0	0.3
NOV 04	29.6	0.3	29.4	1.0	25.5	0.8	21.9	0.1	-0.7	-0.8	0.5
DEC 04	29.4	0.4	29.3	1.1	25.6	0.6	23.0	0.1	-0.7	-1.4	-0.1
JAN 05	28.7	0.2	29.1	1.1	25.8	0.4	24.6	0.1	0.3	0.3	-0.3
FEB 05	28.1	-0.2	28.7	0.7	26.1	-0.2	25.1	-0.9	-2.2	-3.8	1.9
MAR 05	28.7	0.2	28.8	0.7	27.0	-0.1	25.8	-0.5	0.2	0.8	0.5
APR 05	28.9	0.1	28.8	0.6	27.6	0.4	25.1	-0.3	-0.5	0.2	1.3
MAY 05	29.4	0.1	29.1	0.5	27.2	0.3	24.4	0.1	-1.2	-0.8	0.9
JUN 05	29.6	0.2	29.1	0.6	26.6	0.4	22.7	-0.2	0.4	0.0	-0.6

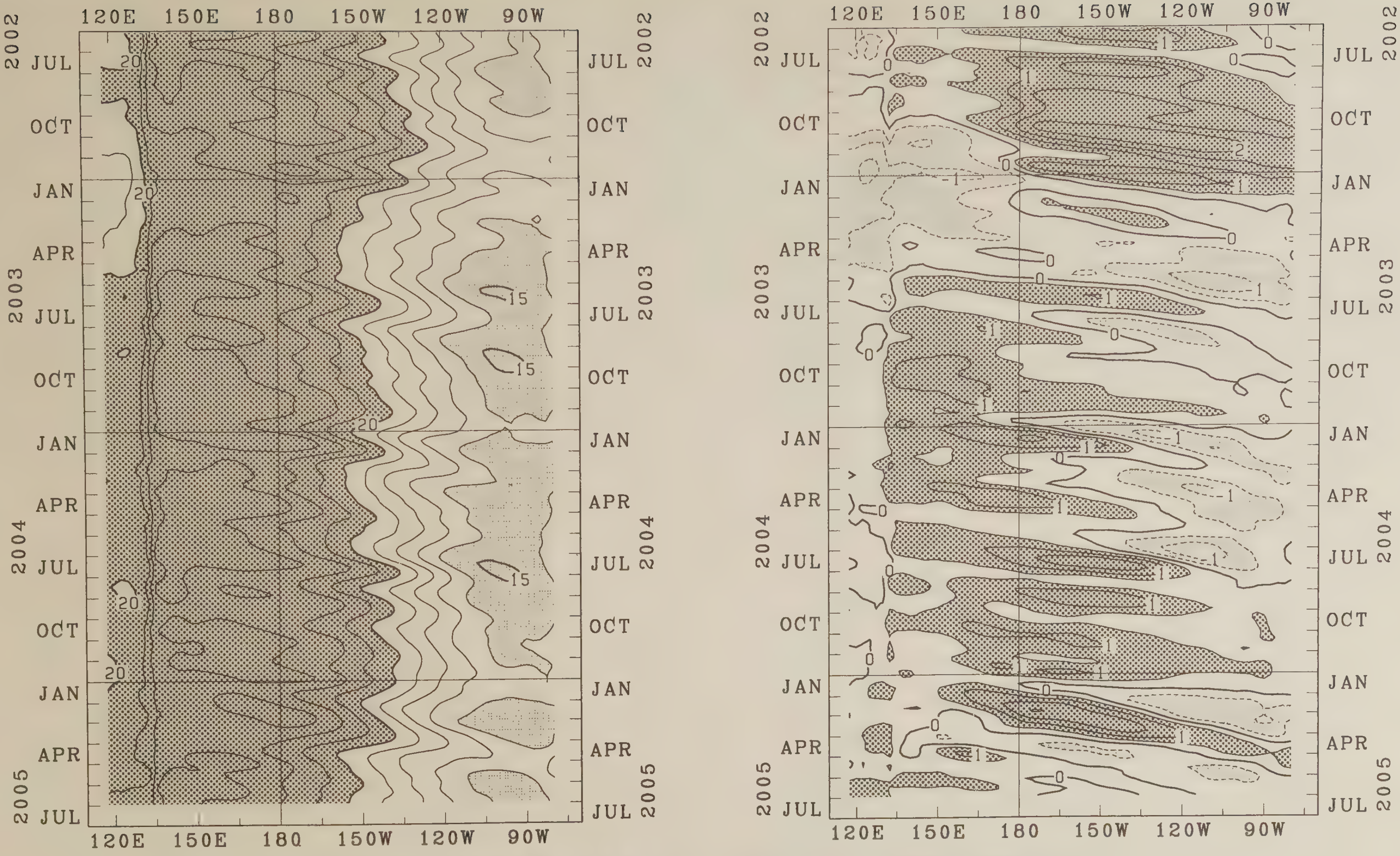
第1表　太平洋熱帯域の大気及び海洋の監視指数

Table 1 Atmospheric and oceanic monitoring indices in the tropical Pacific Ocean



第 27 図　赤道に沿った海面水温（左）および偏差（右）の時間-経度断面図

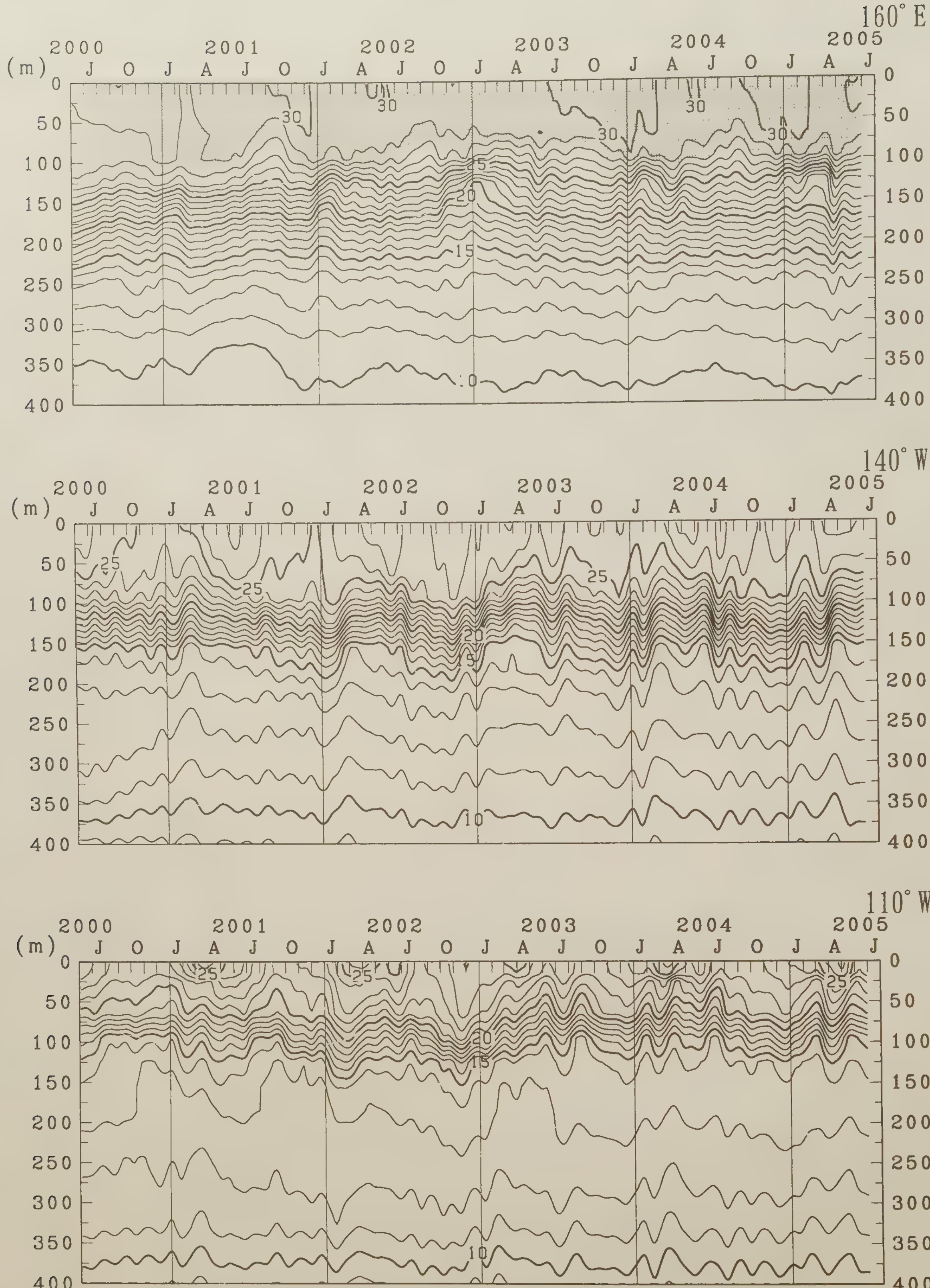
Fig. 27　Time-longitude sections of SSTs (left) and anomalies (right) along the equator (2 ˚N-2 ˚S) in the global ocean. Contour intervals are 1 ˚C (left) and 0.5 ˚C (right). Values greater than 28 ˚C (+0.5 ˚C) are dark-shaded and values less than 23 ˚C (-0.5 ˚C) are light-shaded in the left (right) panel. Dashed contours indicate negative anomalies in the right panel. Anomalies are computed from 1971-2000 base period means.



第28図　太平洋の赤道に沿う海洋表層の貯熱量（左）及び偏差（右）の時間－経度断面図

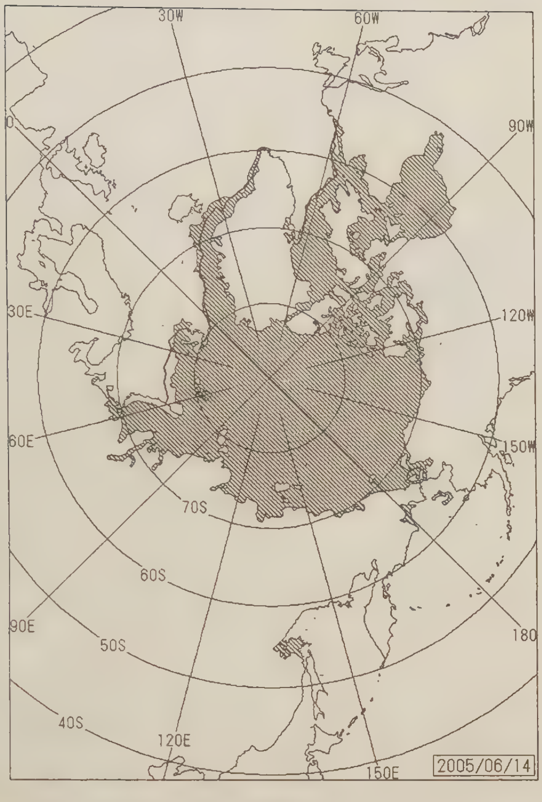
Fig. 28 Time-longitude sections of ocean heat content in the upper 260 m along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour intervals are 1°C (left) and 0.5°C (right). Values greater than 20°C (+0.5°C) are dark-shaded and values less than 16°C (−0.5°C) are light-shaded in the left (right) panel. Dashed contours indicate negative anomalies in the right panel. Anomalies are computed from 1987-2004 base period means.

Time-depth Sections of Equatorial Subsurface Temperature



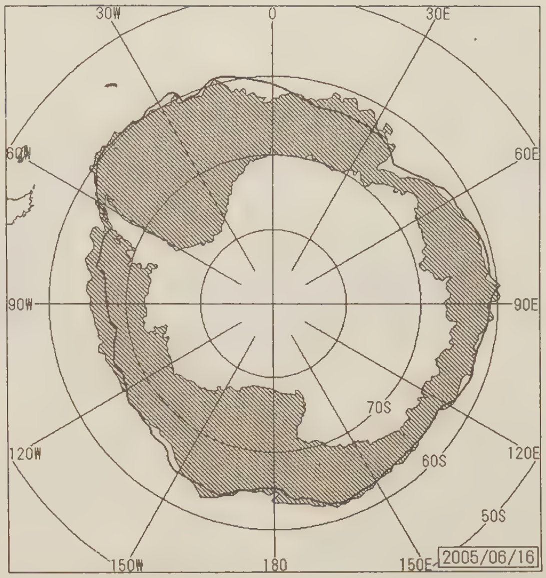
第29図　太平洋赤道域の表層水温の時間－深度断面図
（上：西部、中：中部、下：東部）

Fig. 29　Time-depth sections of equatorial subsurface temperature for the western Pacific (top, 160°E), the central Pacific (middle, 140°W) and the eastern Pacific (bottom, 110°W). Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1°C. Values greater than 28°C are shaded.



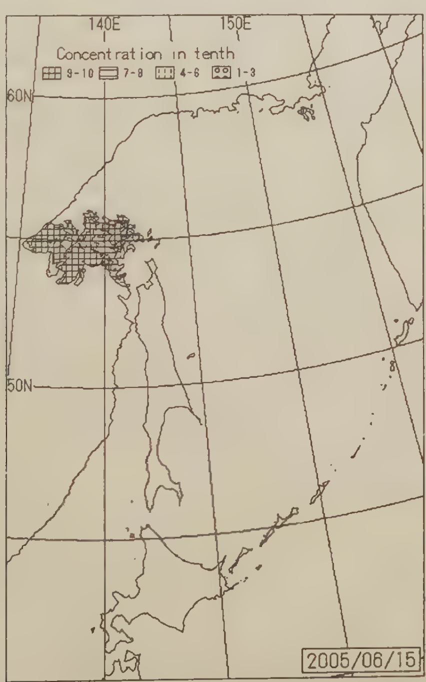
第 30-1 図　北極域の海氷図(2005 年 6 月 14 日)

Fig.30-1 Sea ice chart for the Arctic on 14 Jun. 2005.
The shaded area represents the sea ice extent. The bold line denotes the mean ice edge averaged for the period from 1979 through 2000.
The data source is the National Ice Center (USA).



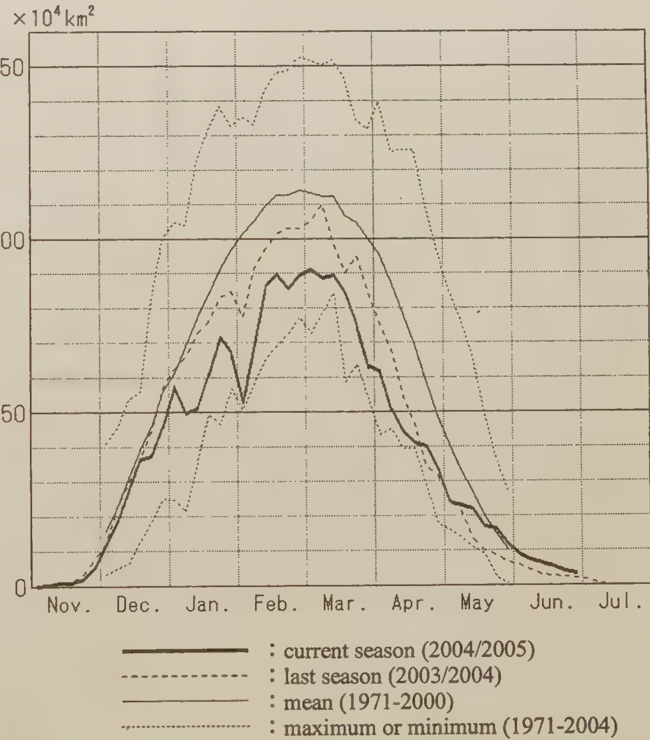
第 30-2 図　南極域の海氷図(2005 年 6 月 16 日)

Fig.30-2 Sea ice chart for the Antarctic on 16 Jun. 2005.
The shaded area represents the sea ice extent. The bold line denotes the mean ice edge averaged for the period from 1979 through 2000.
The data source is the National Ice Center (USA).



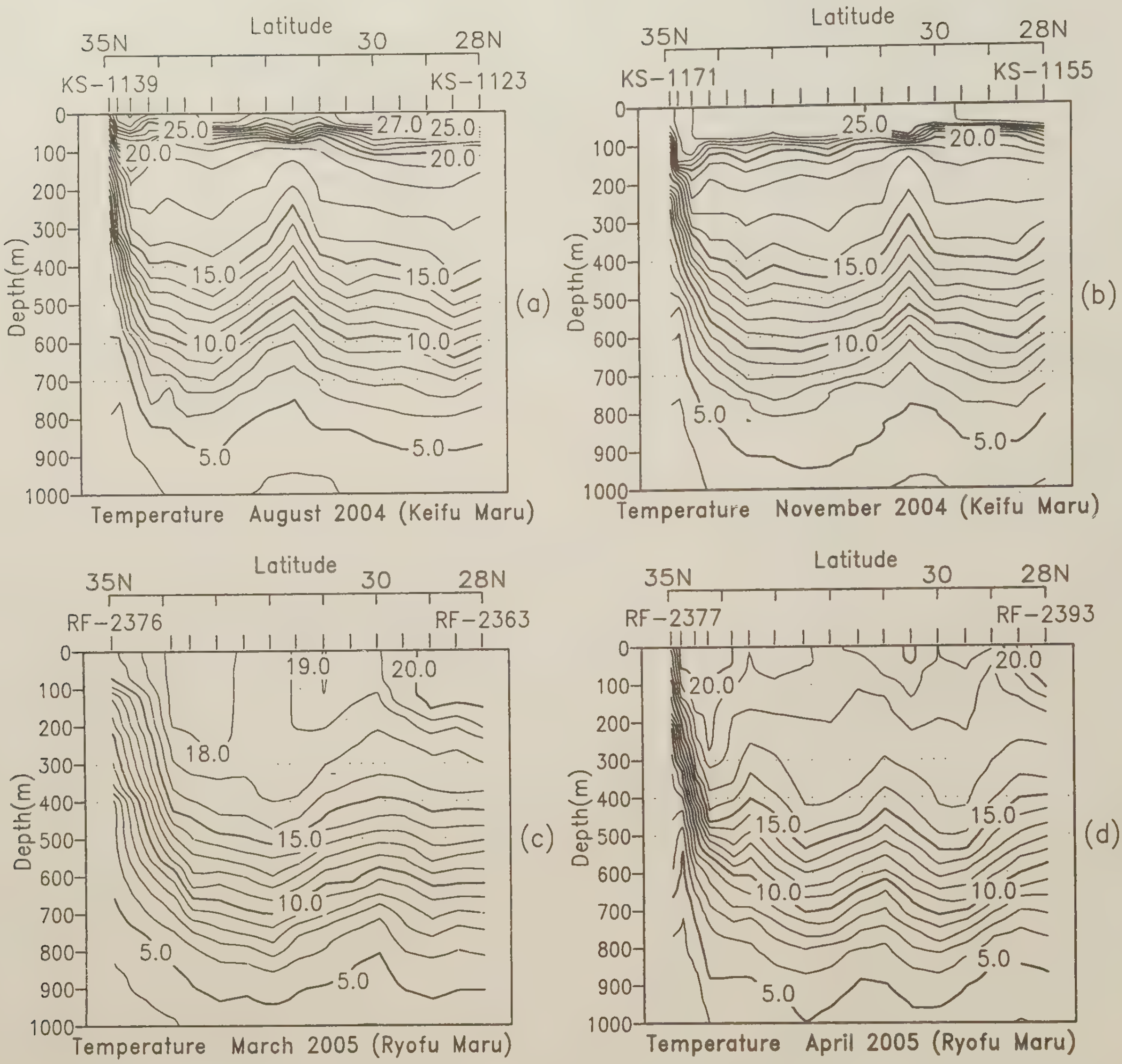
第 30-3 図　オホーツク海の海氷図(2005 年 6 月 15 日)

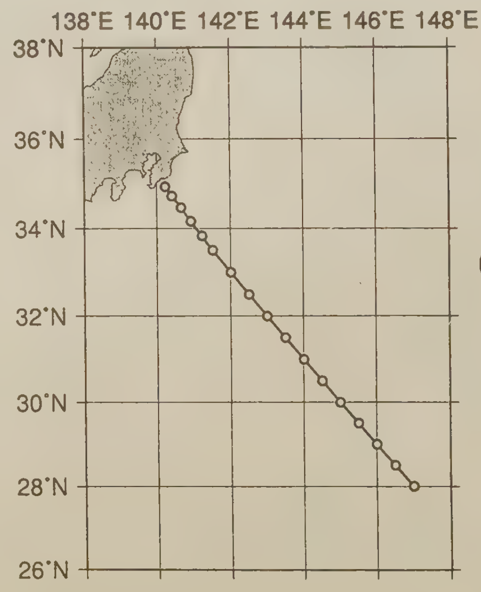
Fig.30-3 Sea ice chart for the Sea of Okhotsk on 15 Jun. 2005.



第 30-4 図　オホーツク海の海氷域面積の経過図

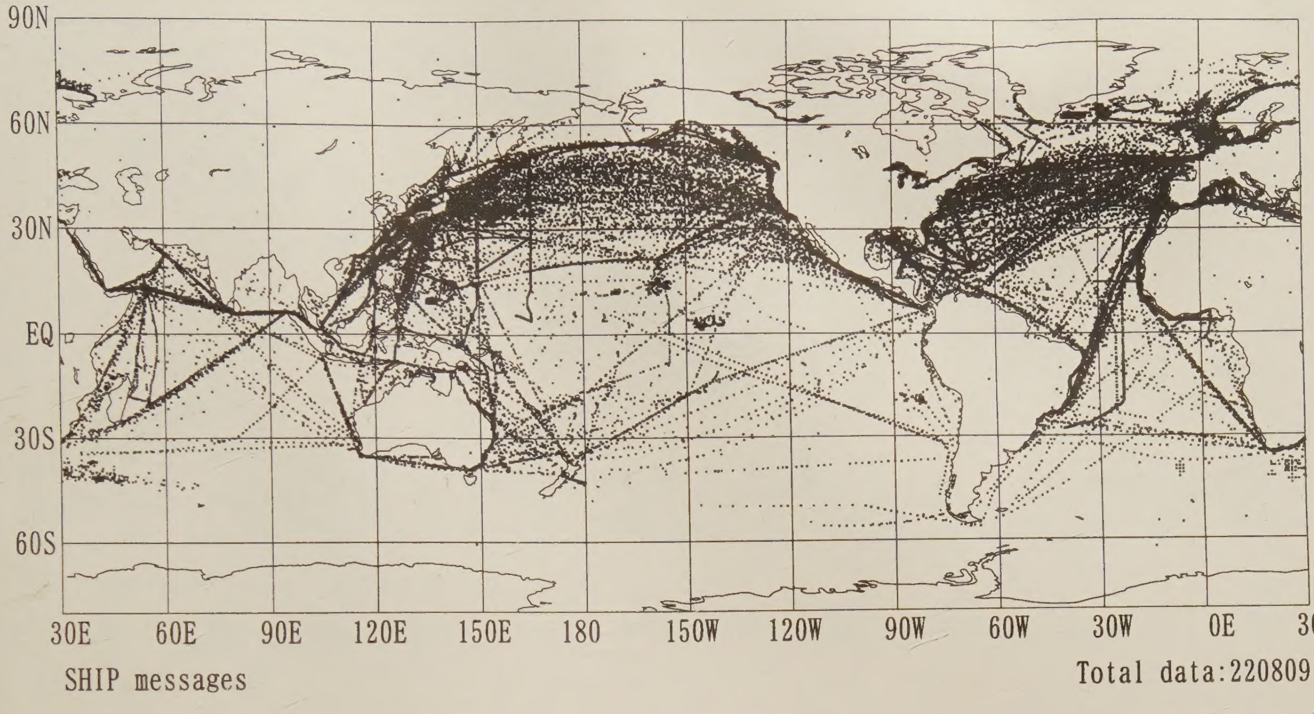
Fig.30-4 Time series of 5-day sea ice area in the Sea of Okhotsk

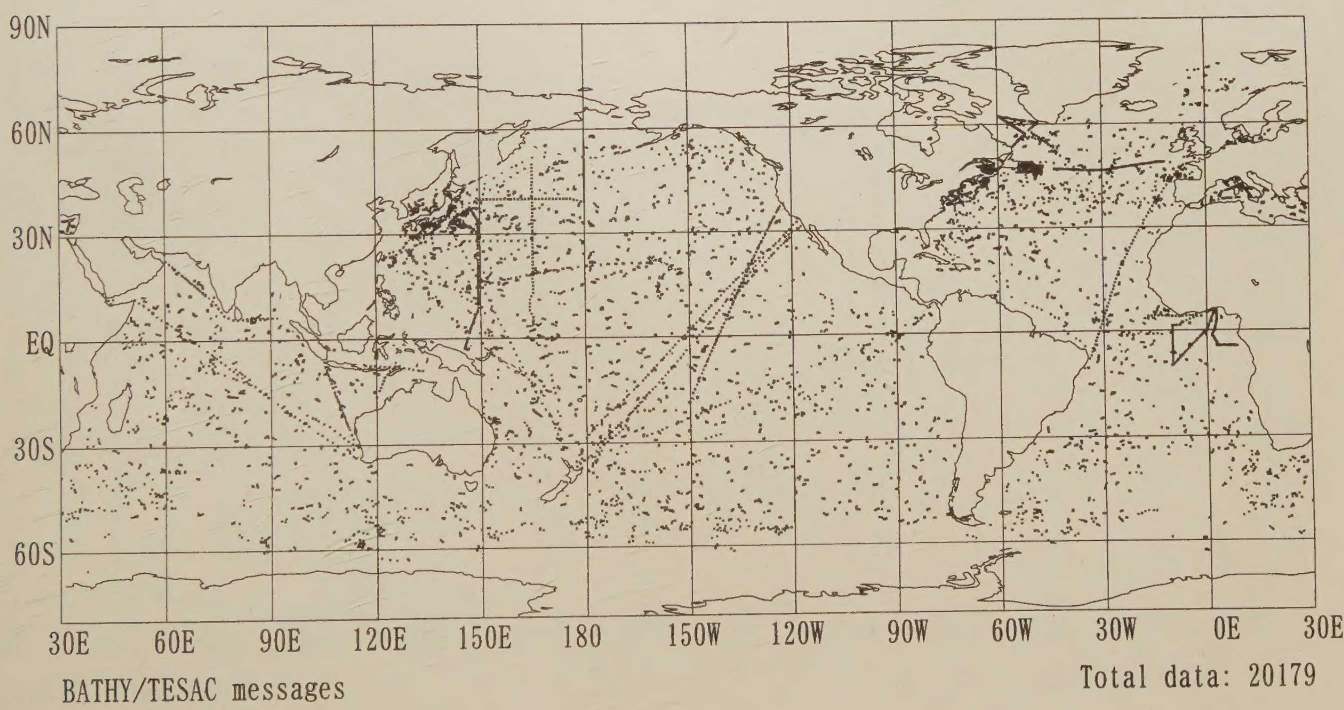




第 31 図 気象庁凌風丸及び神戸海洋気象台啓風丸による房総沖線に沿った水温鉛直断面図.
(a) 2004 年 8 月 (啓風丸), (b) 2004 年 11 月 (啓風丸), (c) 2005 年 3 月 (凌風丸), (d) 2005 年 4 月 (凌風丸), (e) 観測位置図.

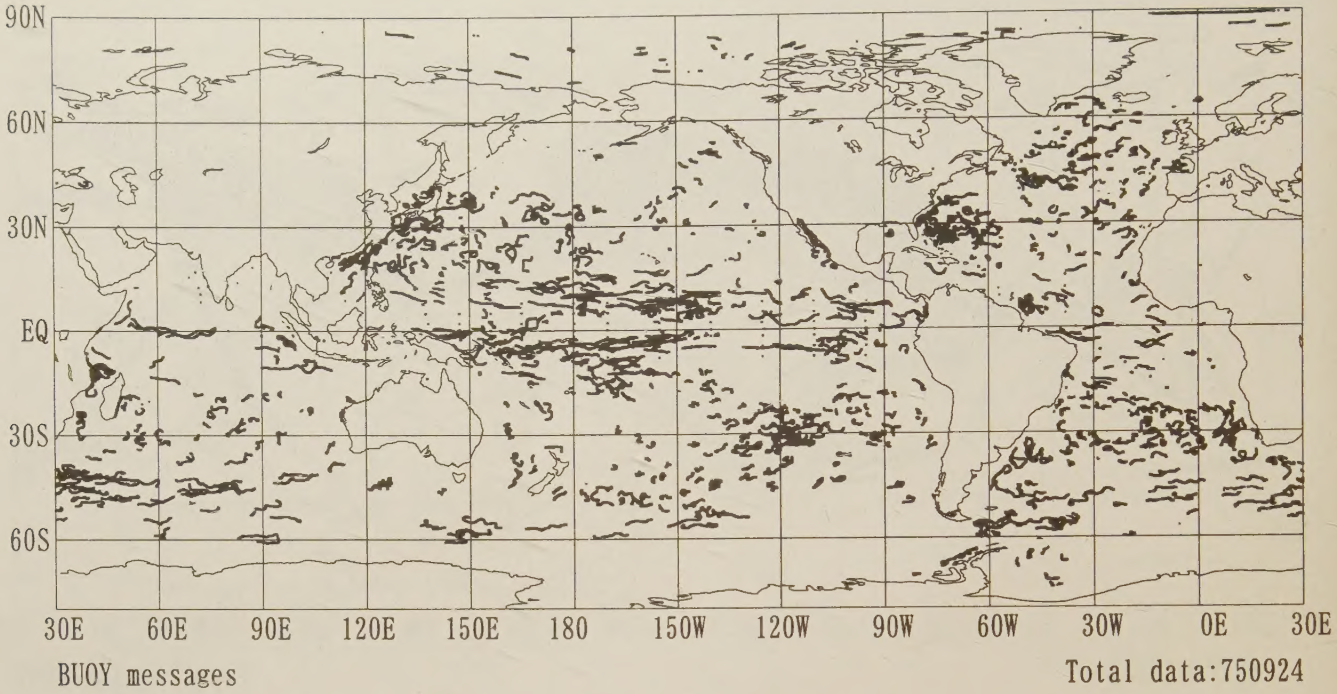
Fig. 31 Vertical sections of water temperature (°C) along the off Boso line by R/V Ryofu Maru of JMA and R/V Keifu Maru of Kobe Marine Observatory.
(a) August 2004 (Keifu Maru), (b) November 2004 (Keifu Maru), (c) March 2005 (Ryofu Maru), (d) March 2005 (Ryofu Maru), and (e) Location of observations.

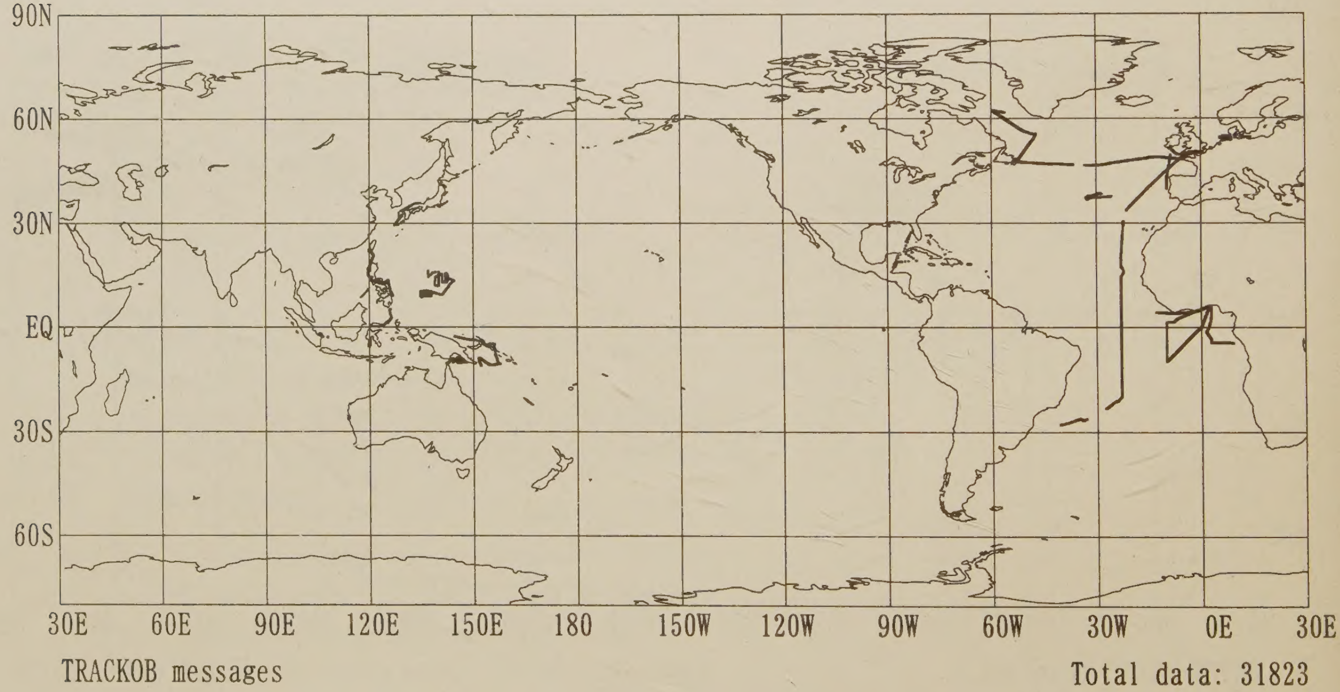




第32-1図　測点分布図(2005年 6月)

Fig. 32-1　Geographical distribution of SHIP messages (top) and BATHY/TESAC messages (bottom) for June 2005.





第32-2図　測点分布図(2005年 6月)

Fig. 32-2 Geographical distribution of BUOY messages (top) and TRACKOB messages (bottom) for June 2005.

気　象　庁　海　洋　月　報

Monthly Ocean Report

June 2005 (No. 150)

謝　　　辞

本月報掲載の 2005 年 6 月のプロダクトには、気象庁が観測したデータ及び GTS（全球気象通信網）を通じて入手した国際気象通報式による通報のほか、下記の機関等から提供していただいたデータを使用しています。

防衛庁、水産庁、海上保安庁

水産総合研究センター

海洋研究開発機構、宇宙航空研究開発機構

東京大学

水産試験場等（北海道、岩手県、宮城県、秋田県、山形県、福島県、茨城県、東京都、新潟県、富山県、福井県、静岡県、愛知県、三重県、京都府、和歌山県、鳥取県、山口県、高知県、佐賀県、宮崎県）

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